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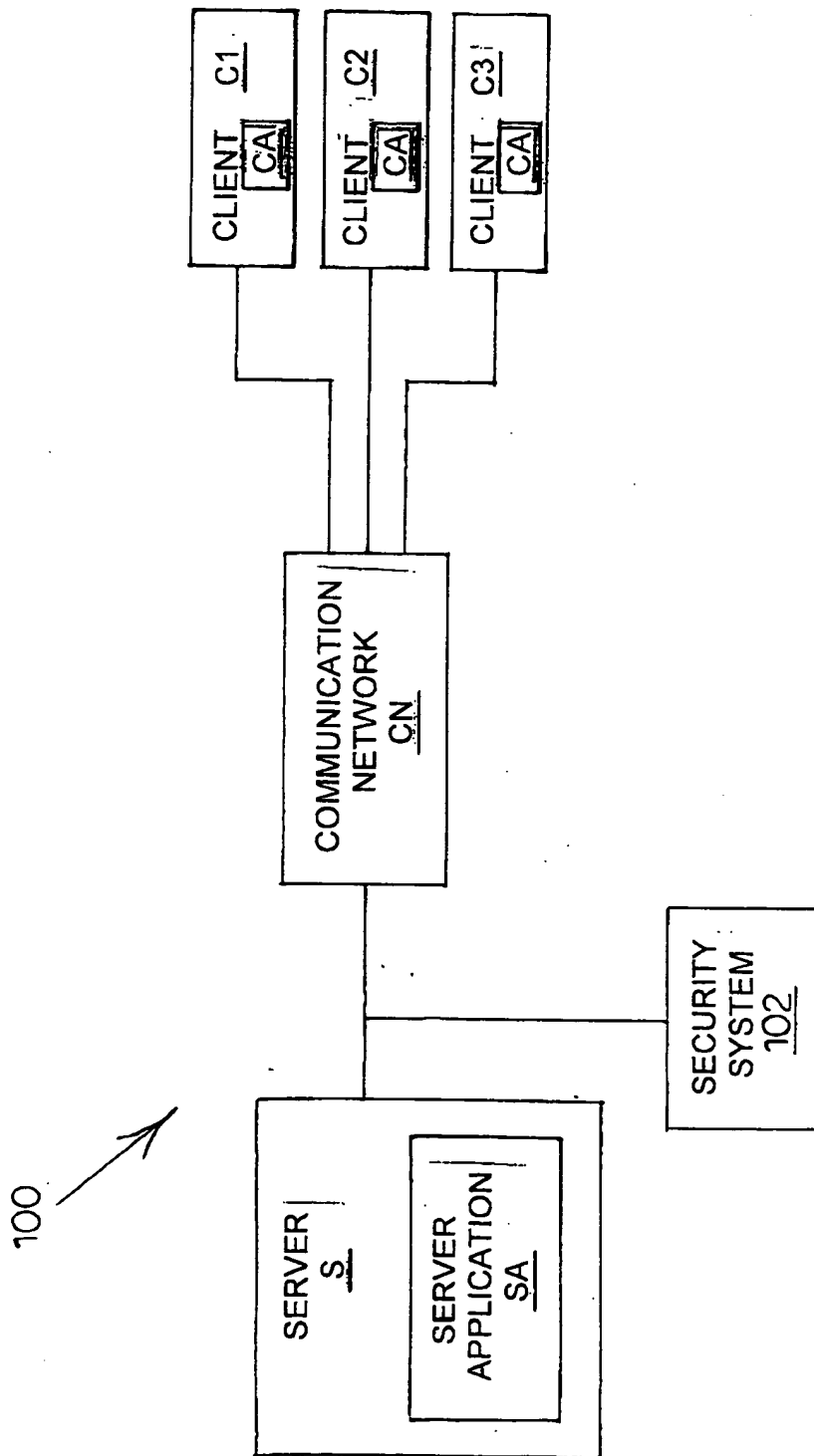


Fig. 1A

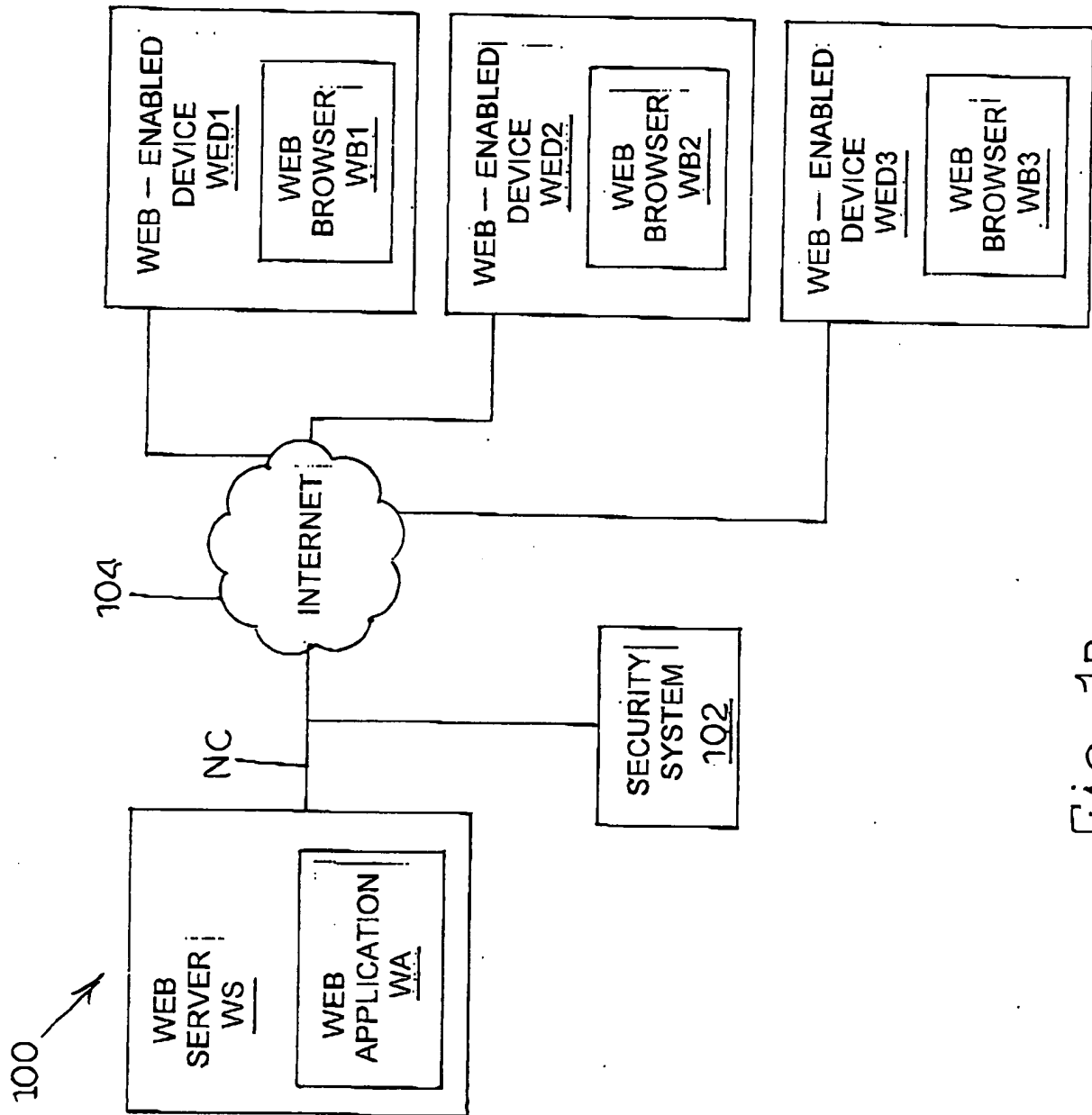


Fig. 1B

FIG. 2

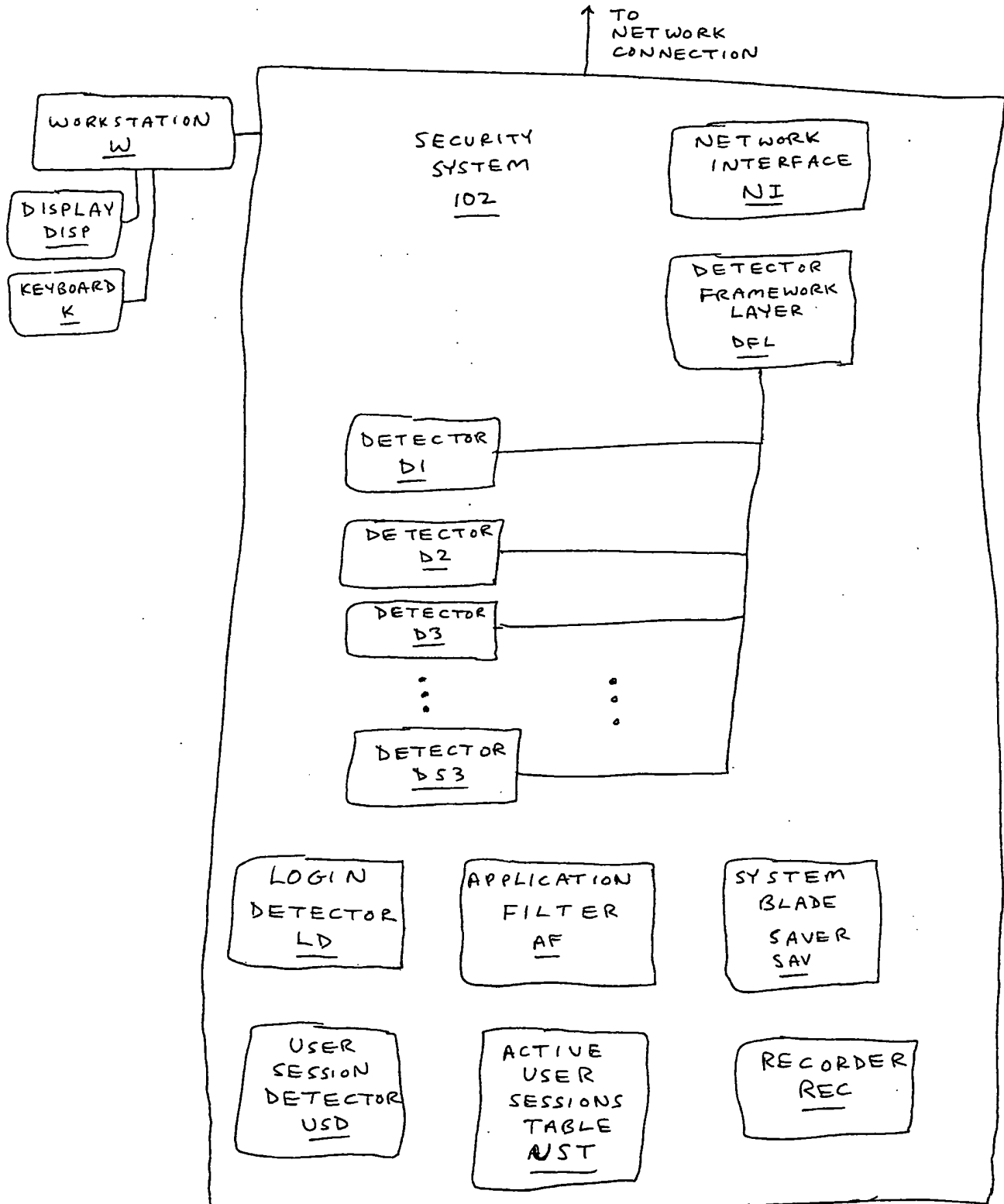


FIG. 3

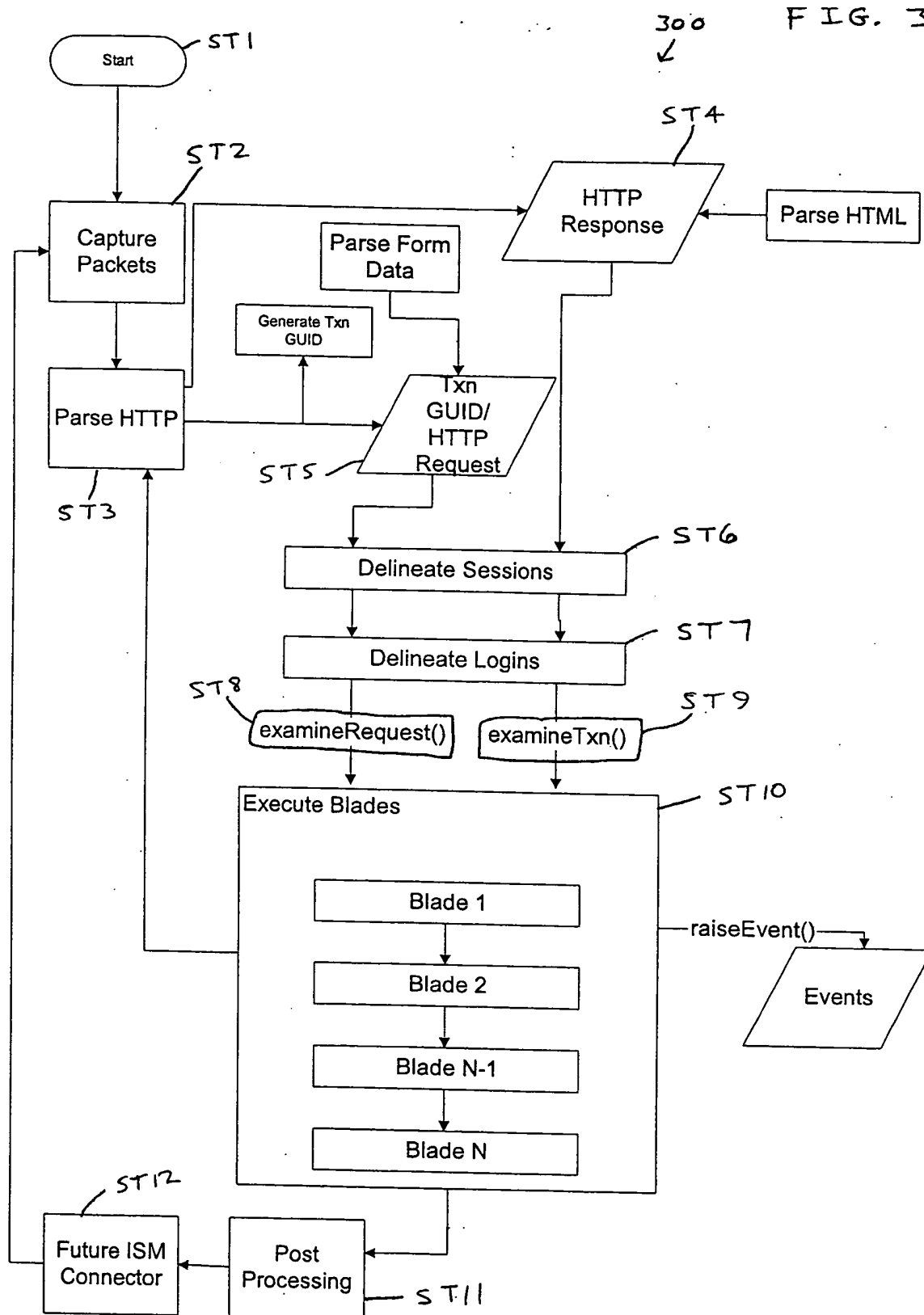


FIG. 4

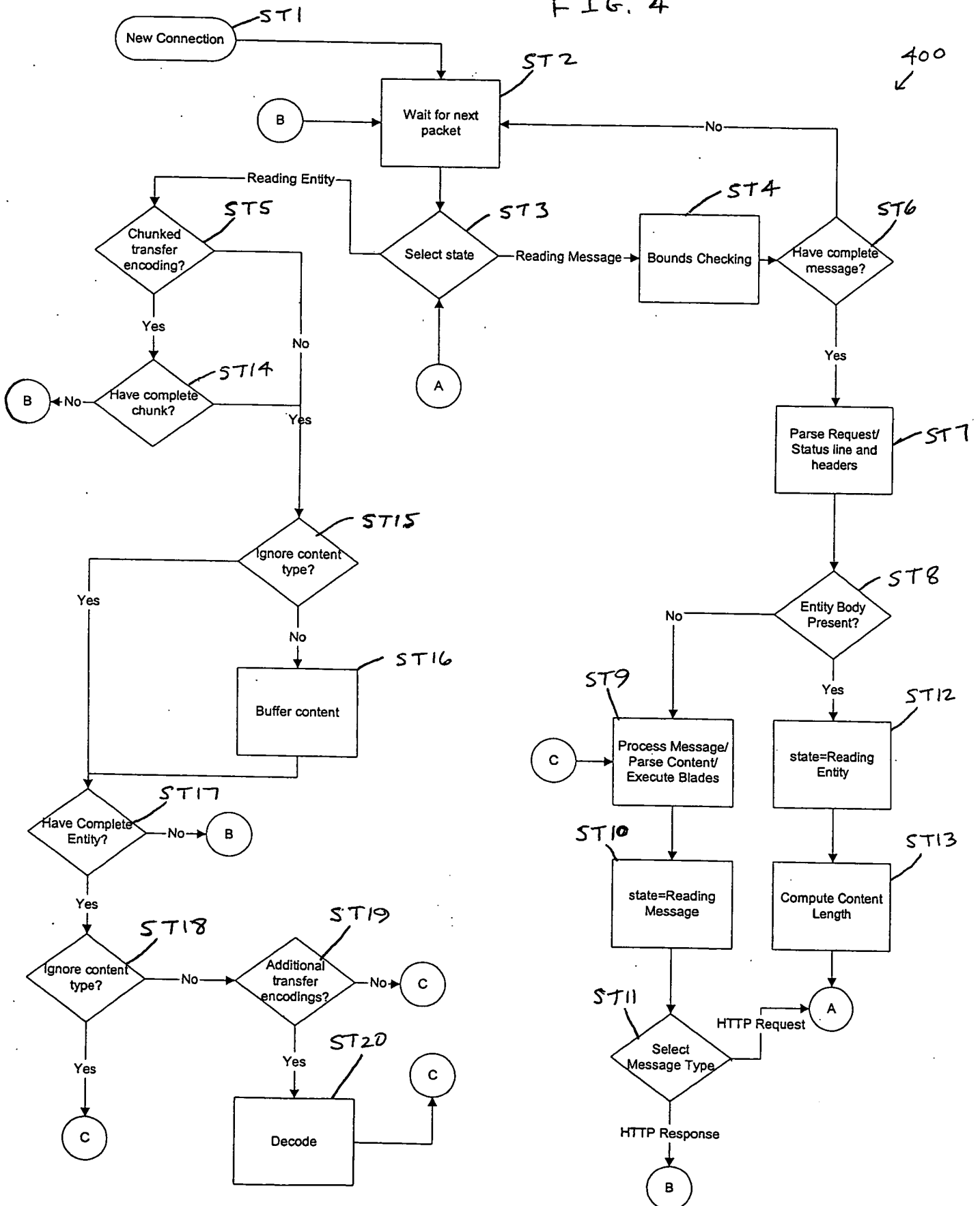
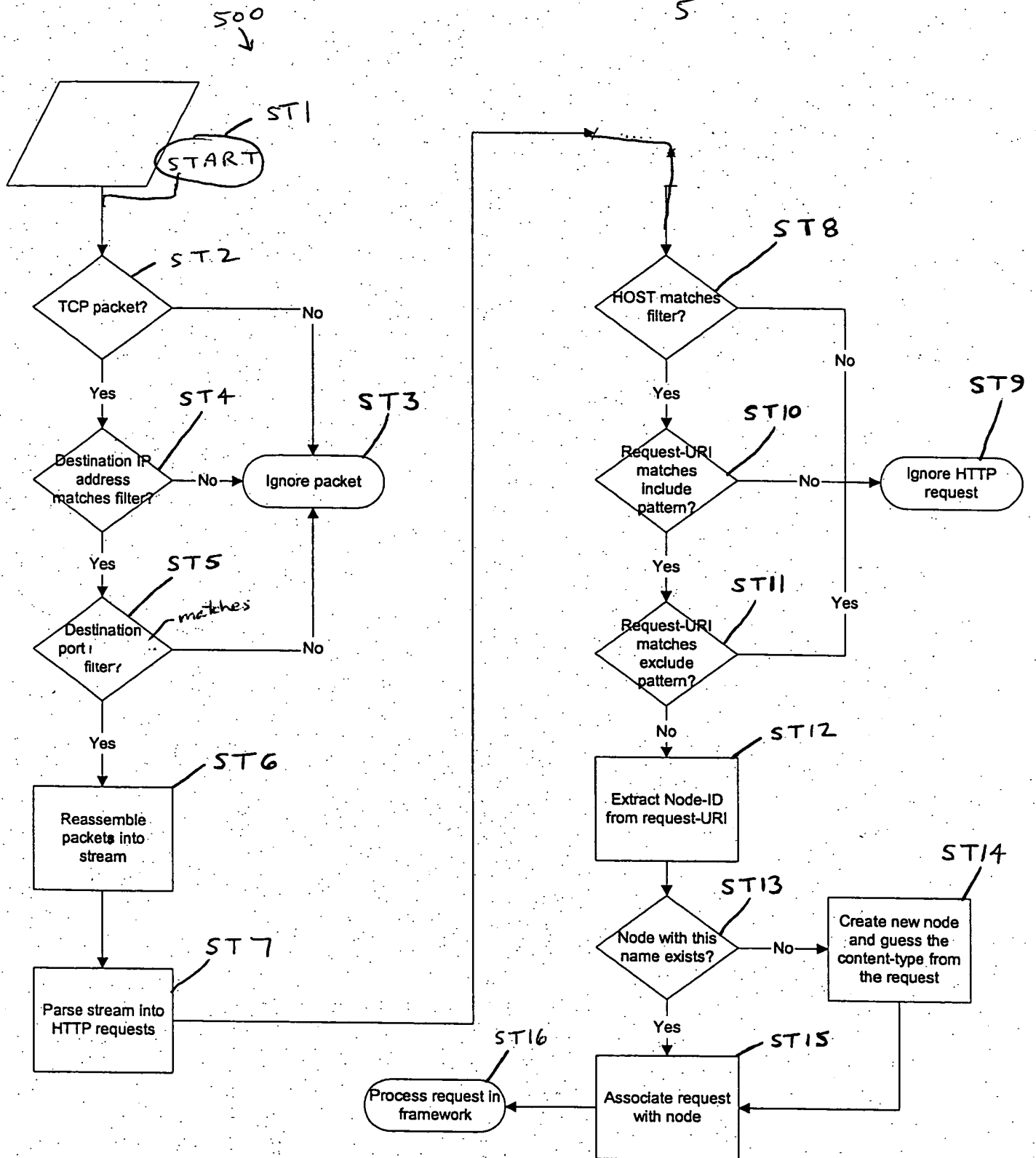
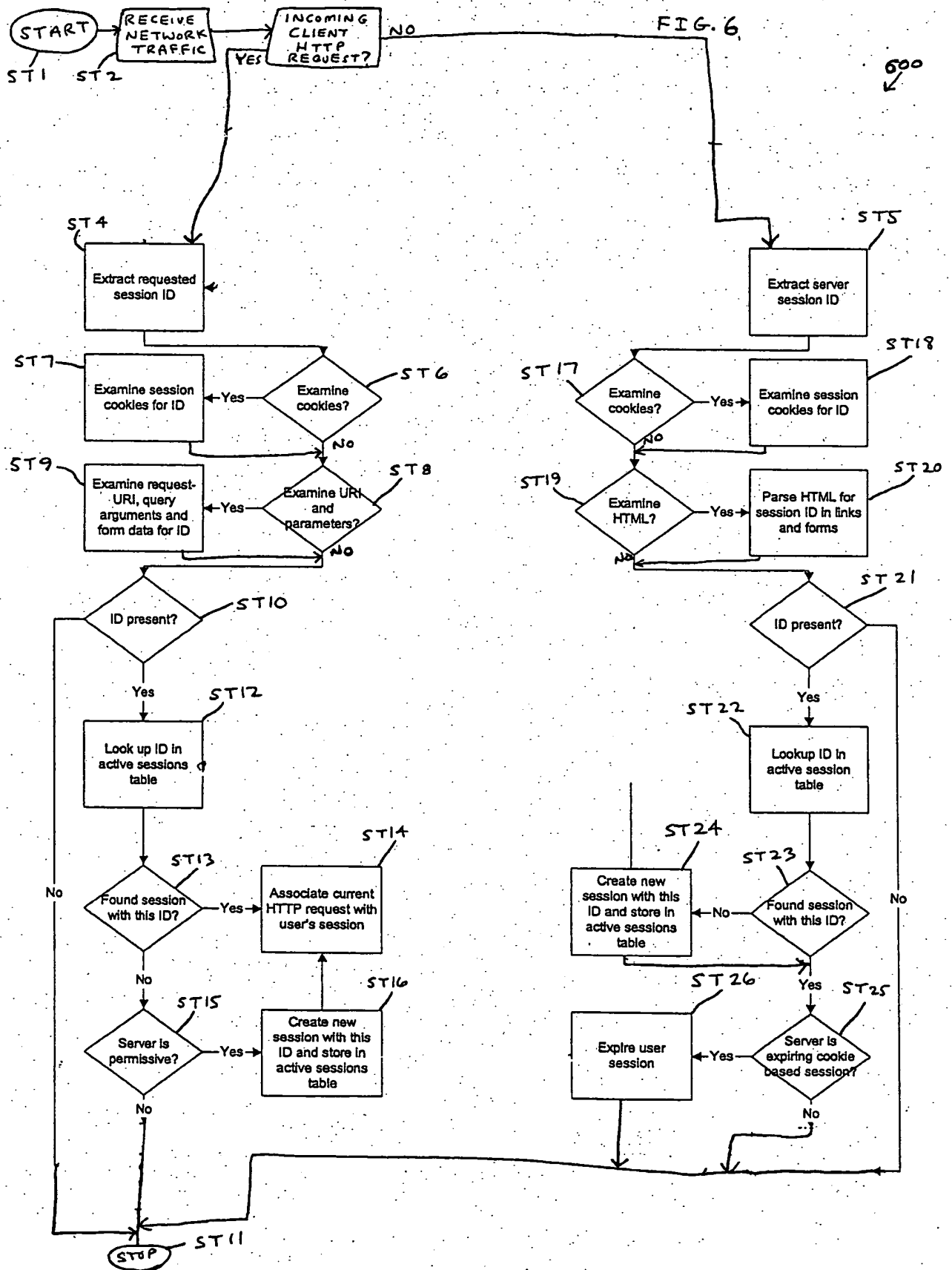


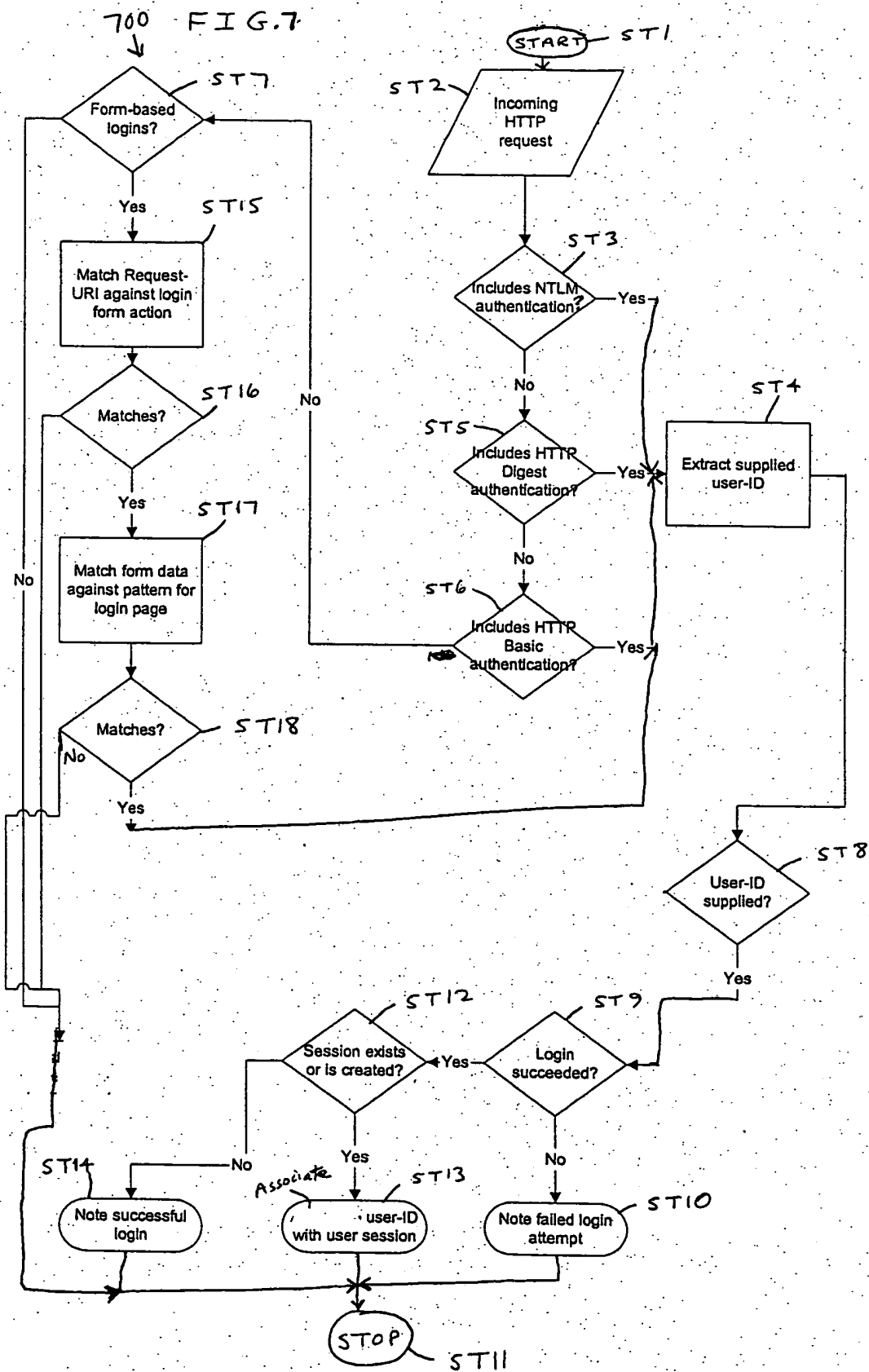
FIG.
5



Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR
MONITORING PROTOCOL RESPONSES
FOR A SERVER APPLICATION

Atty Docket: 1503/9





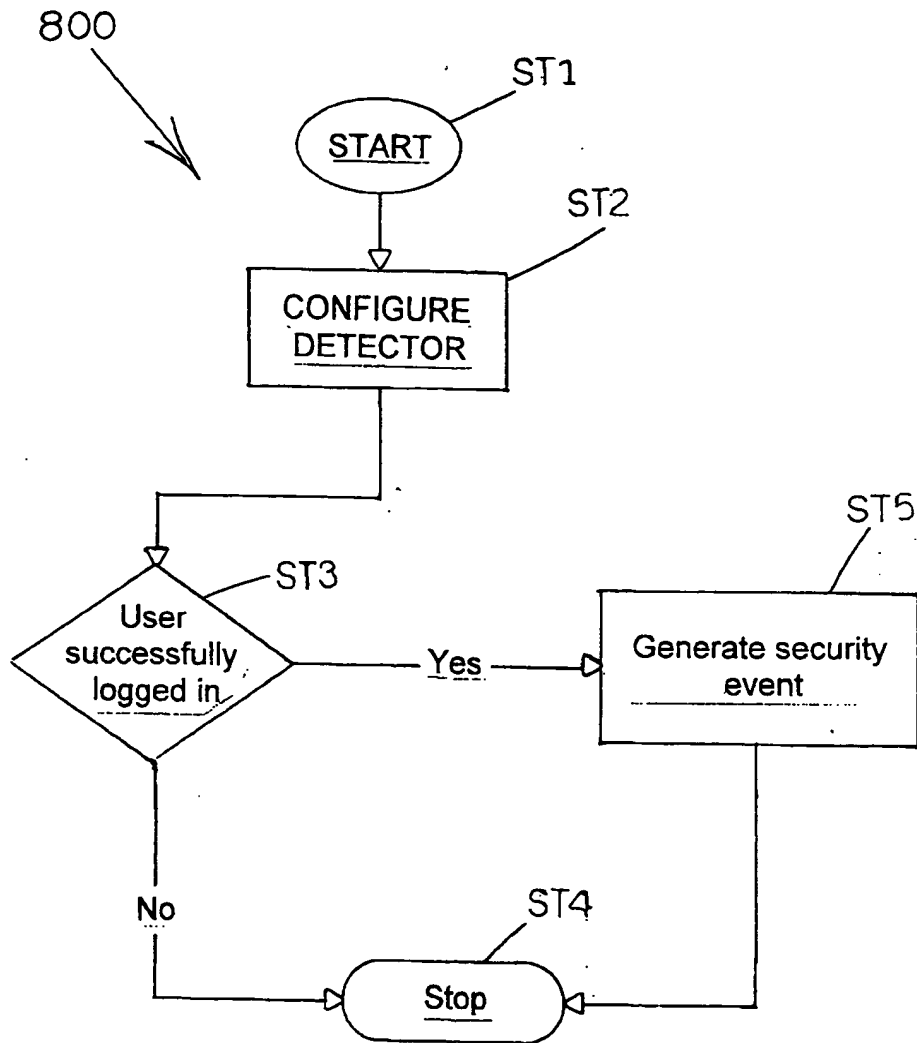


Fig. 8

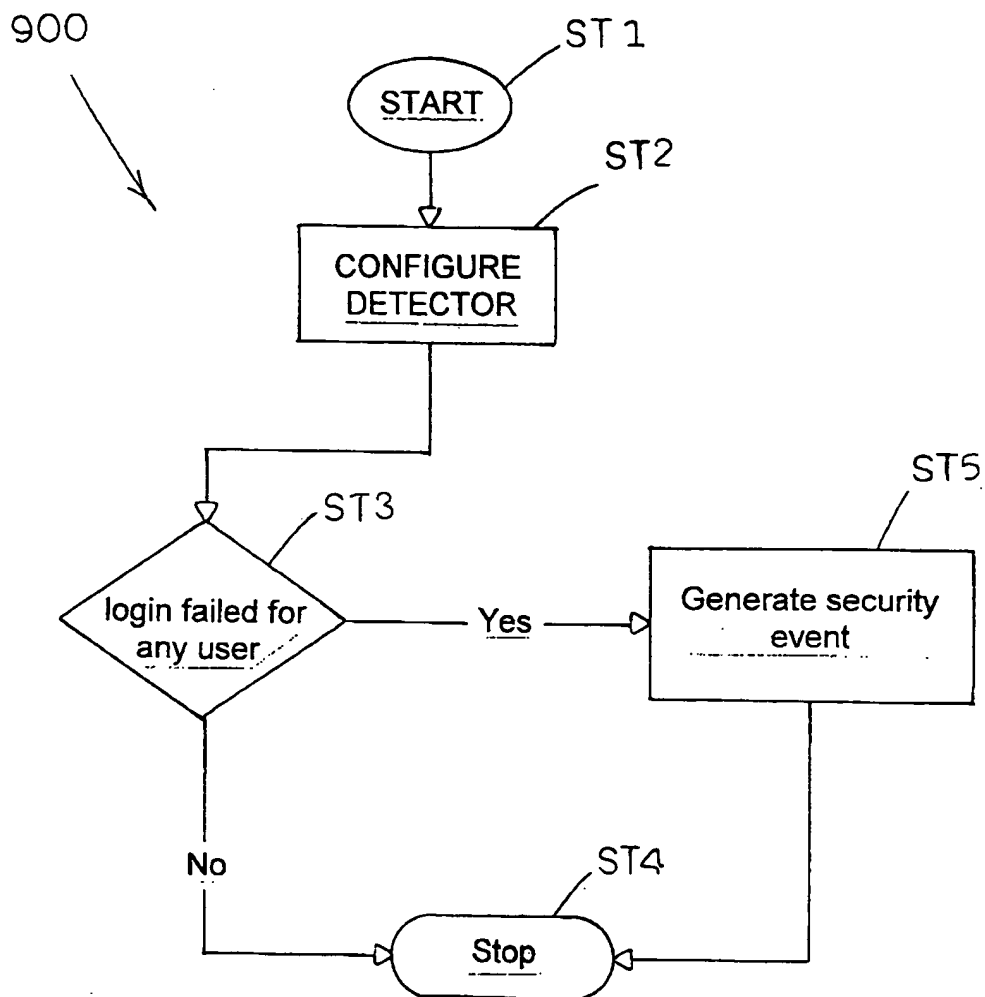


Fig. 9

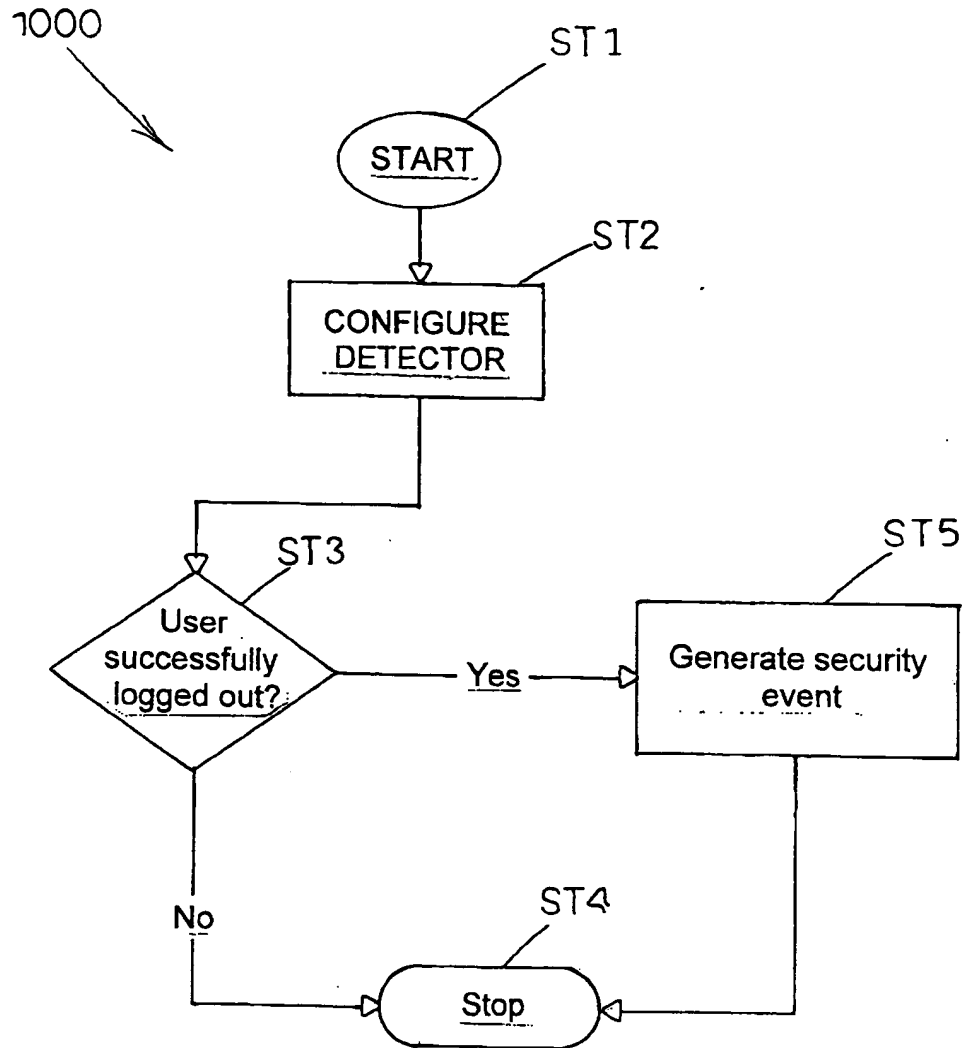


Fig. 10

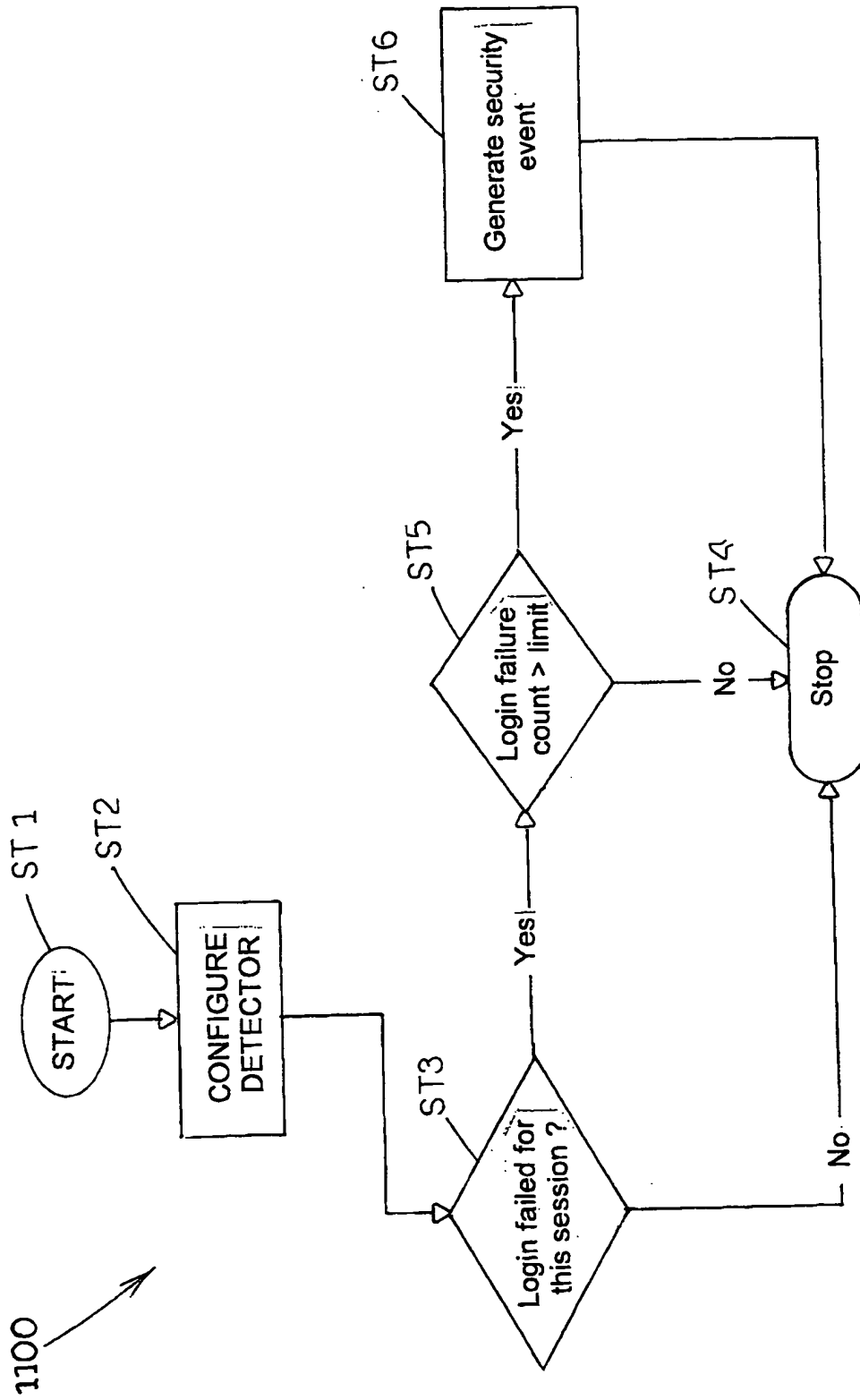


Fig. 11

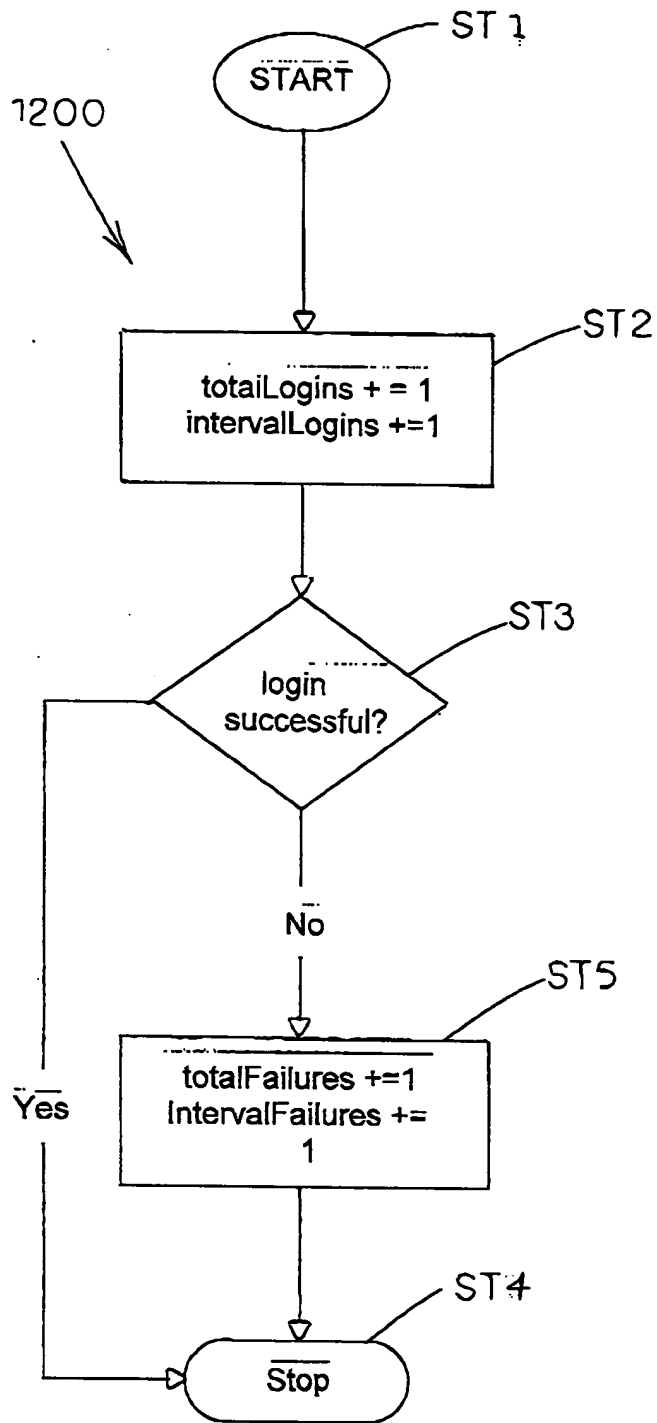


Fig. 12A

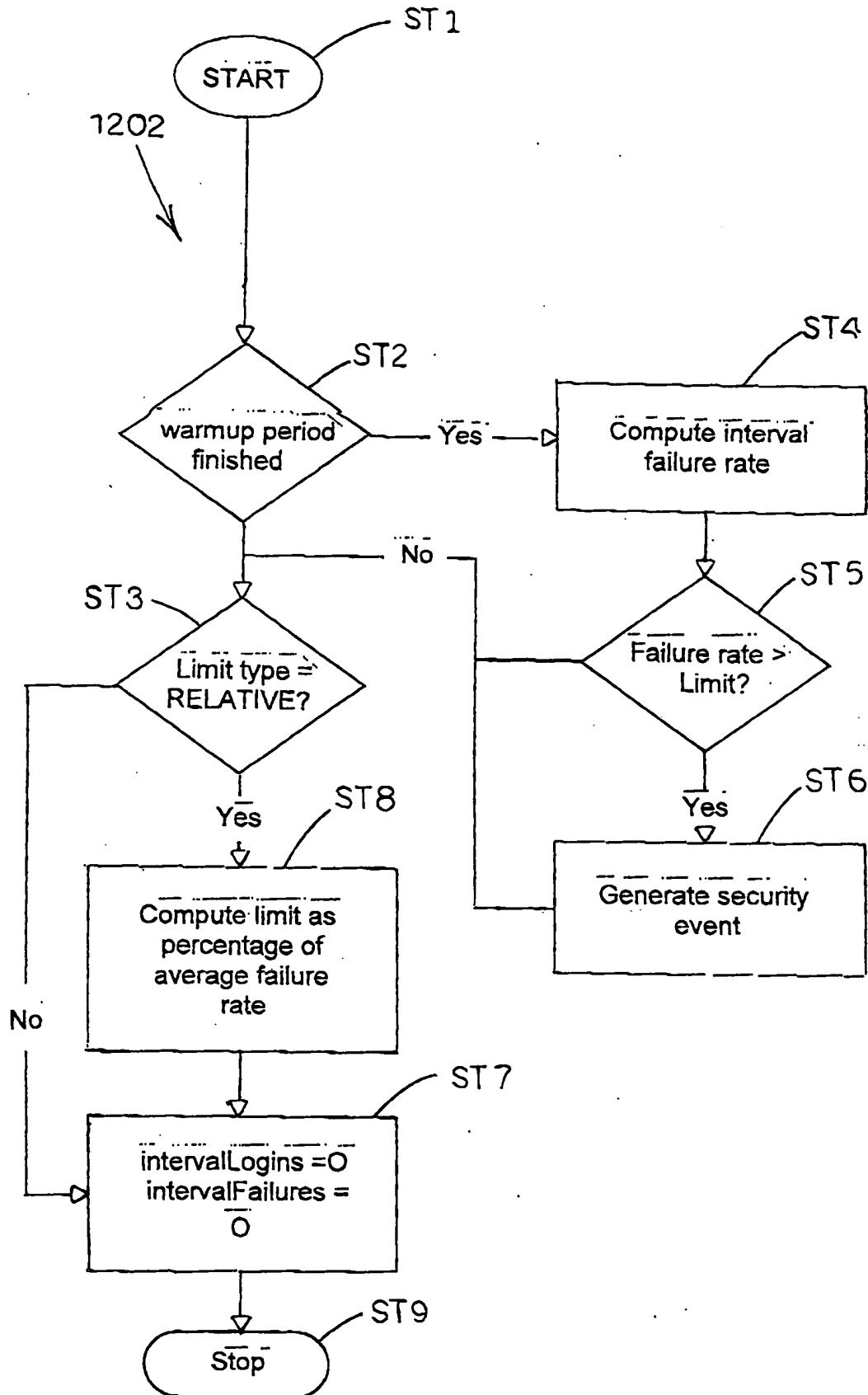


Fig. 12B

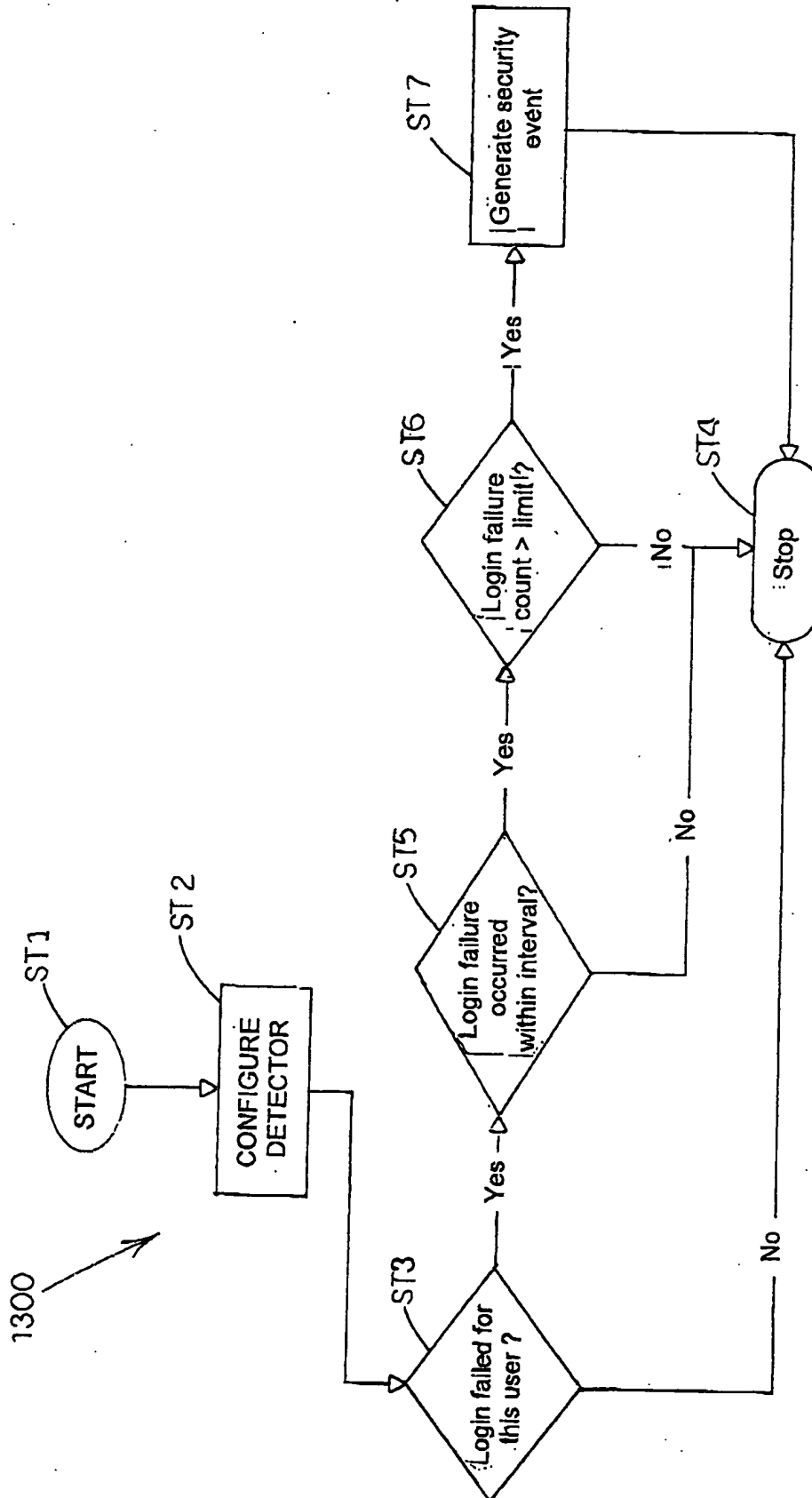


Fig. 13

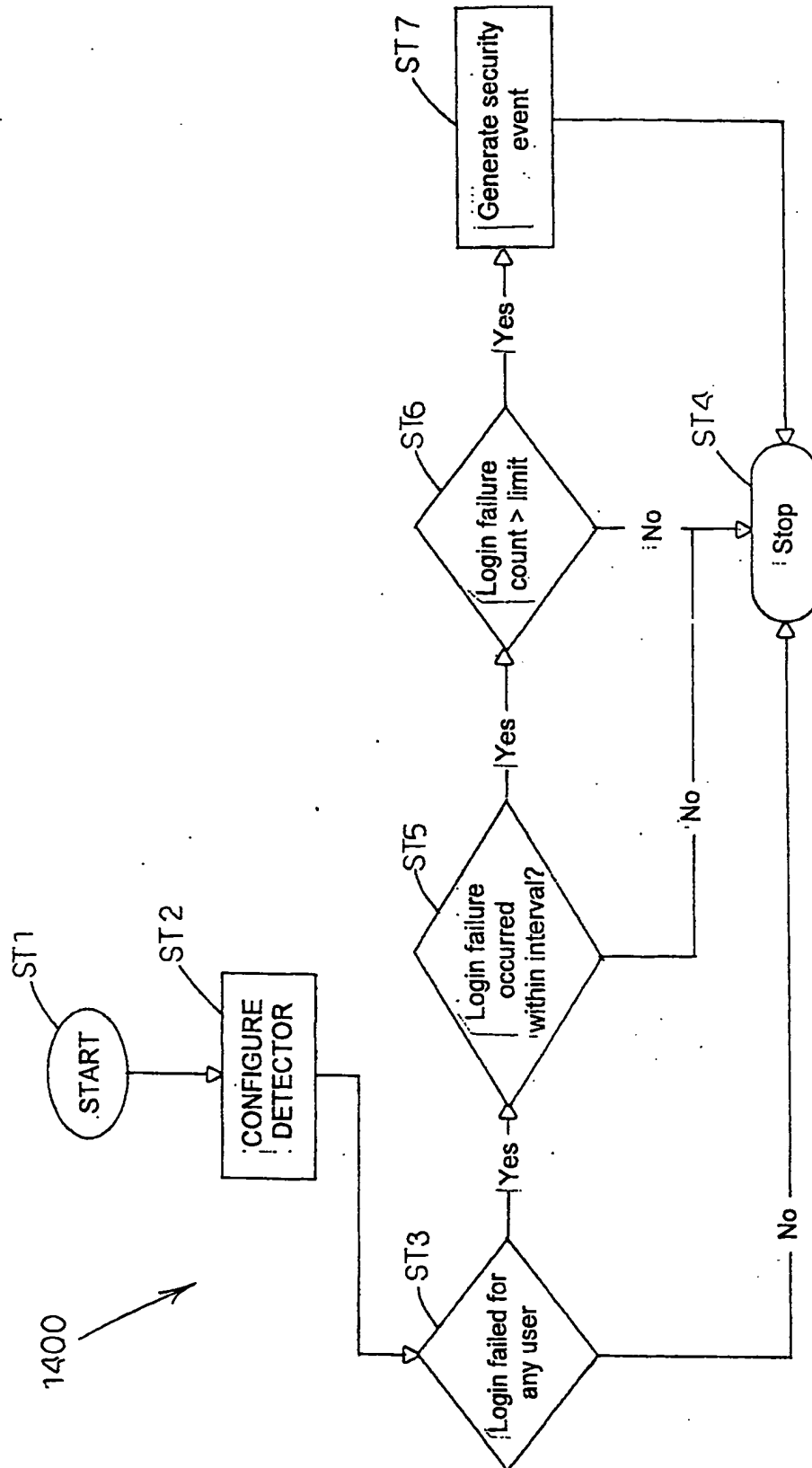


Fig. 14

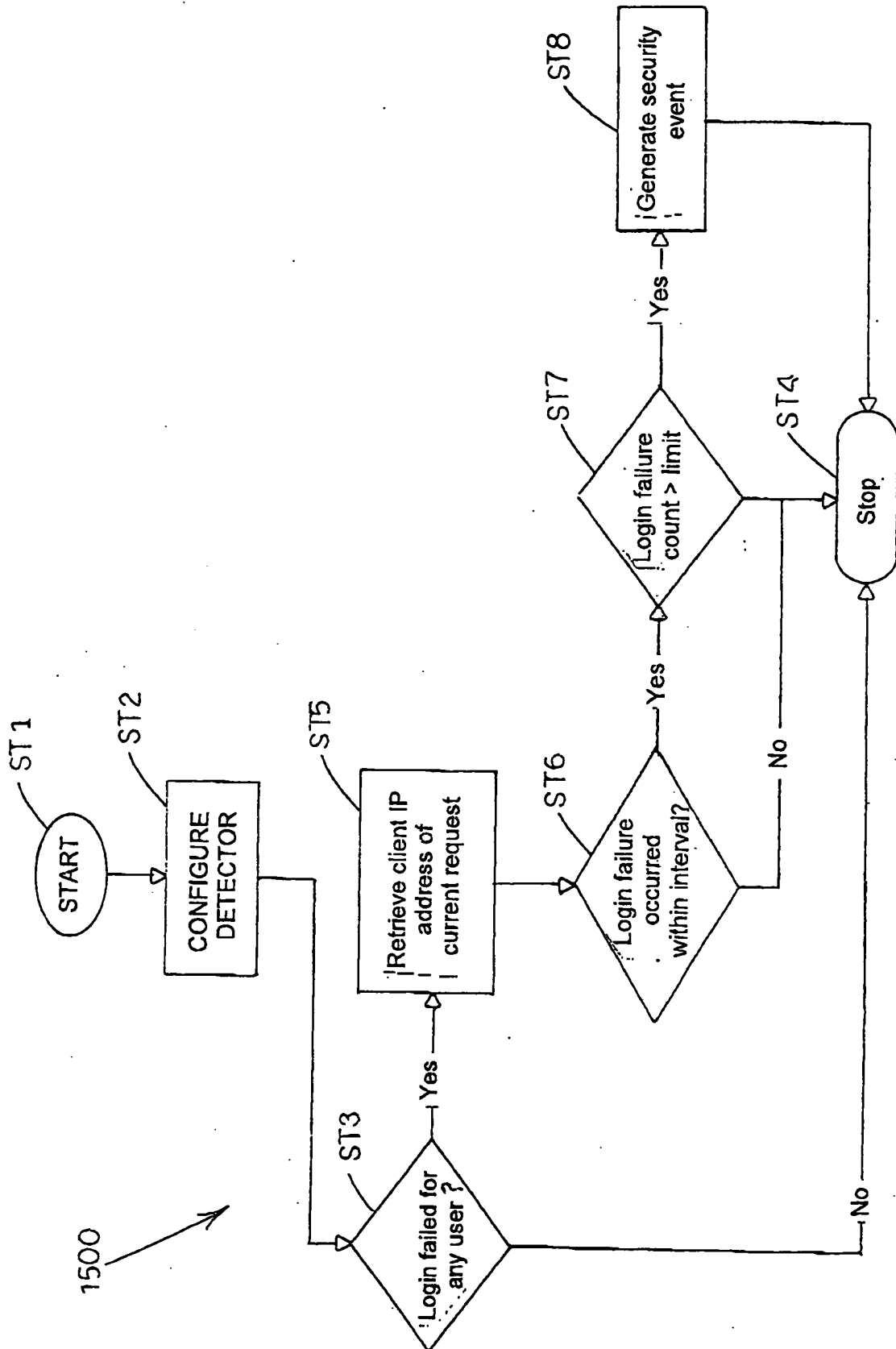
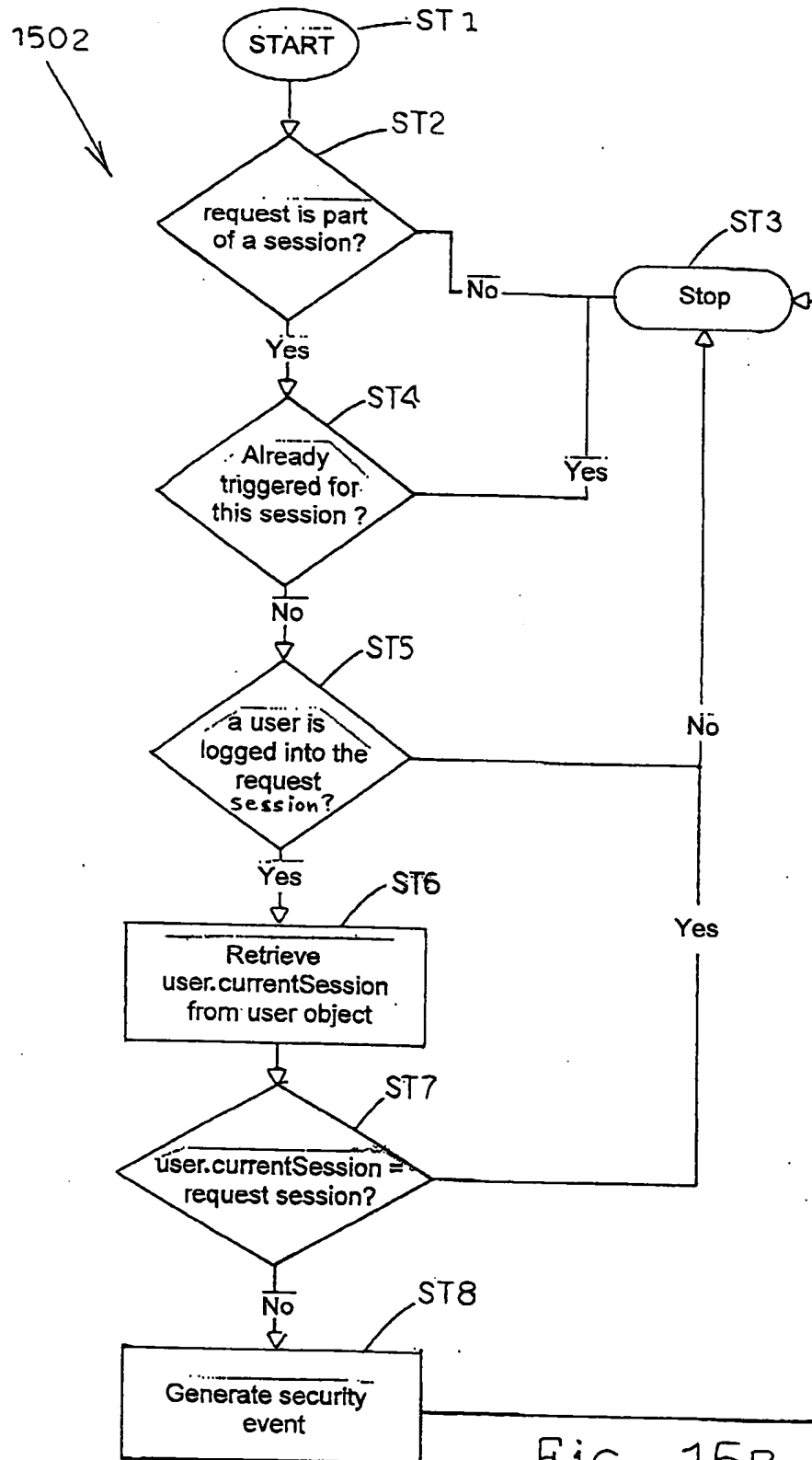


Fig. 15A



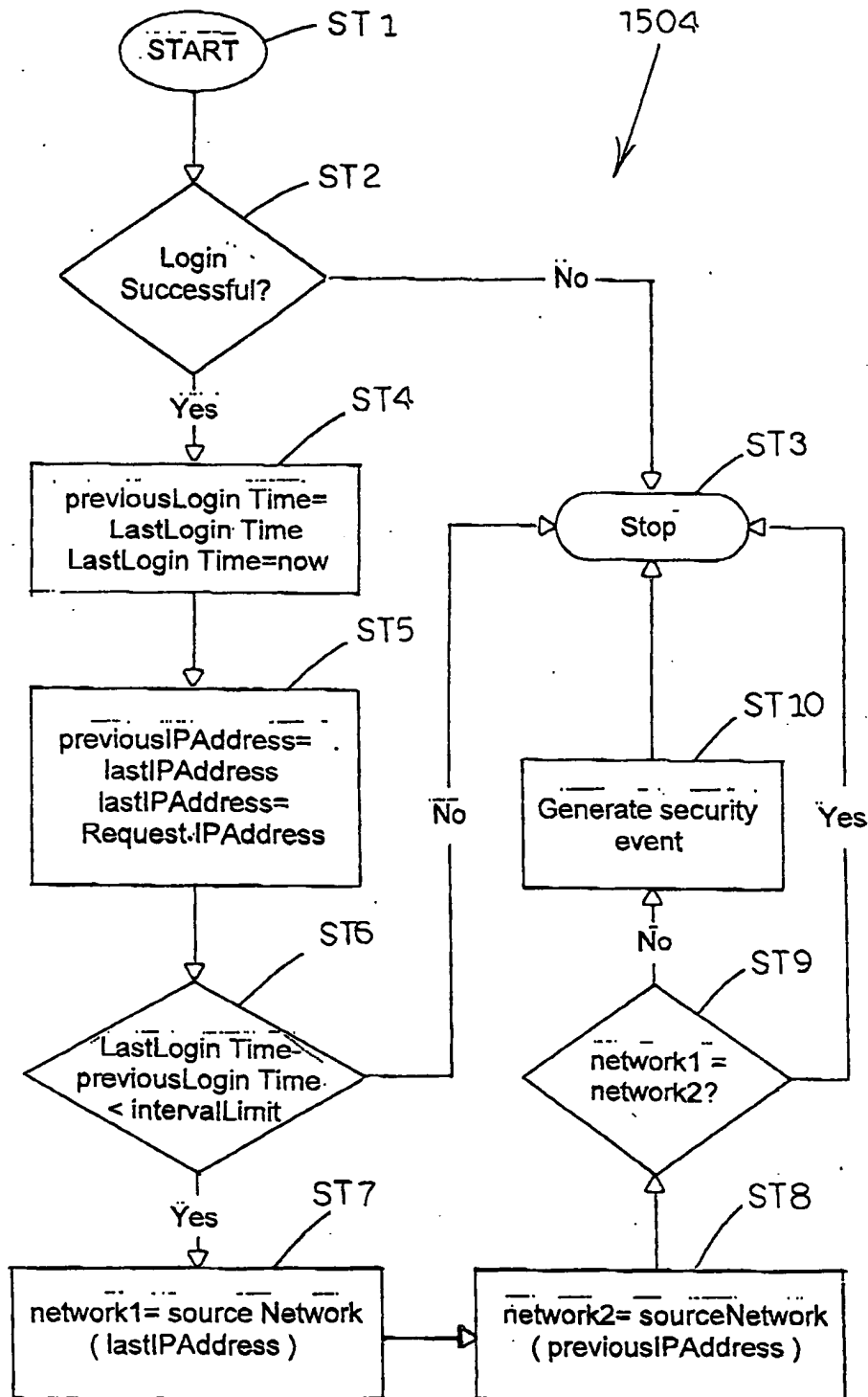
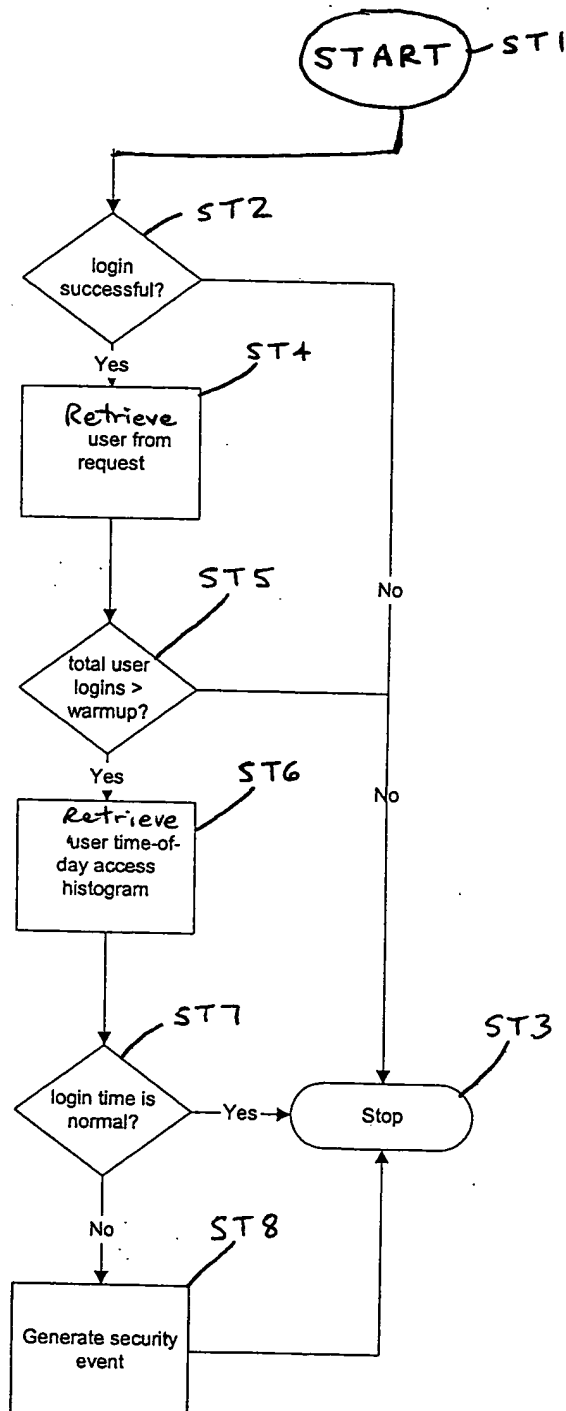


Fig. 15c

1600
↓
FIG. 16A



1602
↓
FIG. 16B

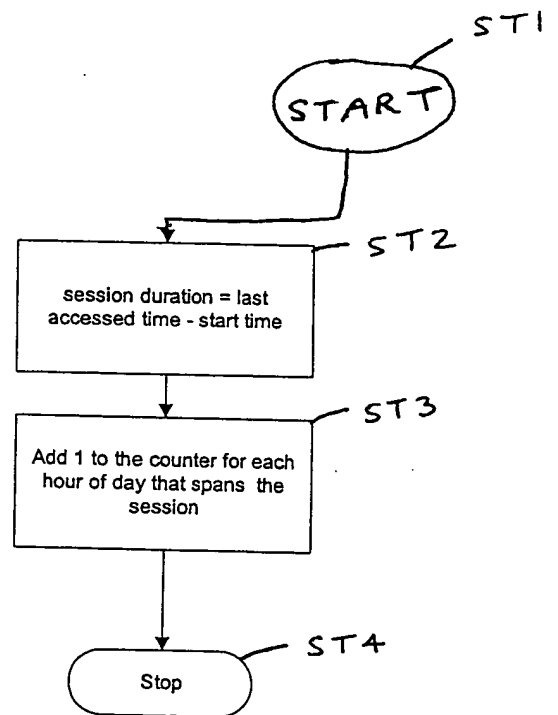


FIG. 17A

1700
↓

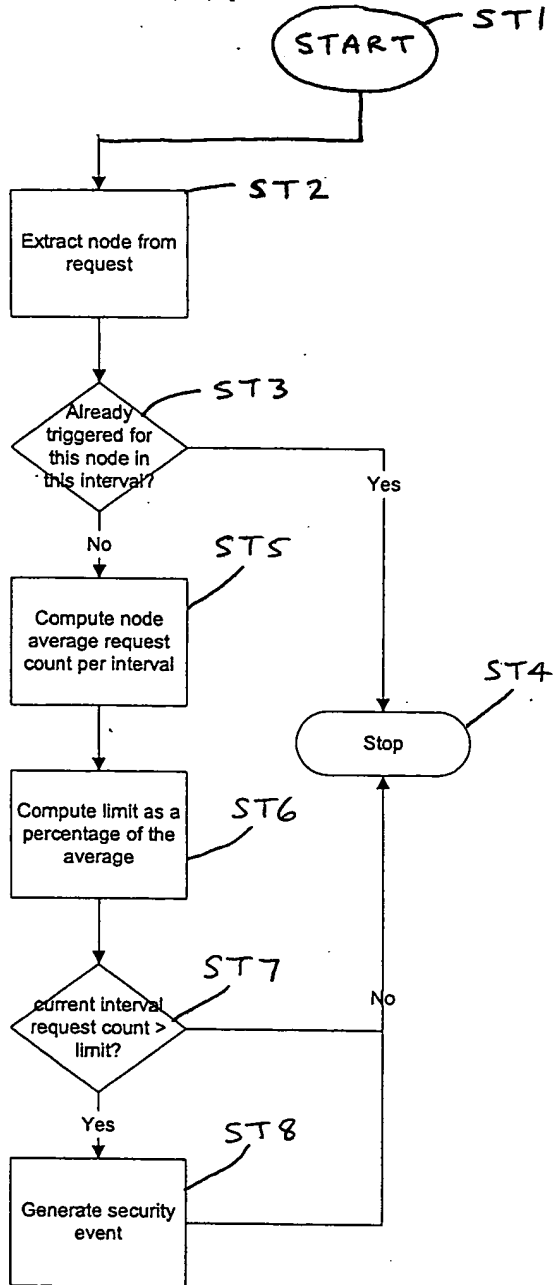


FIG. 17B

1702

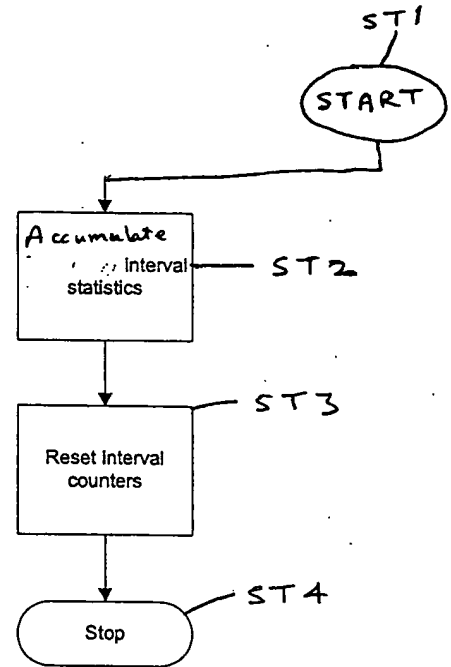


FIG. 18

1800
↓

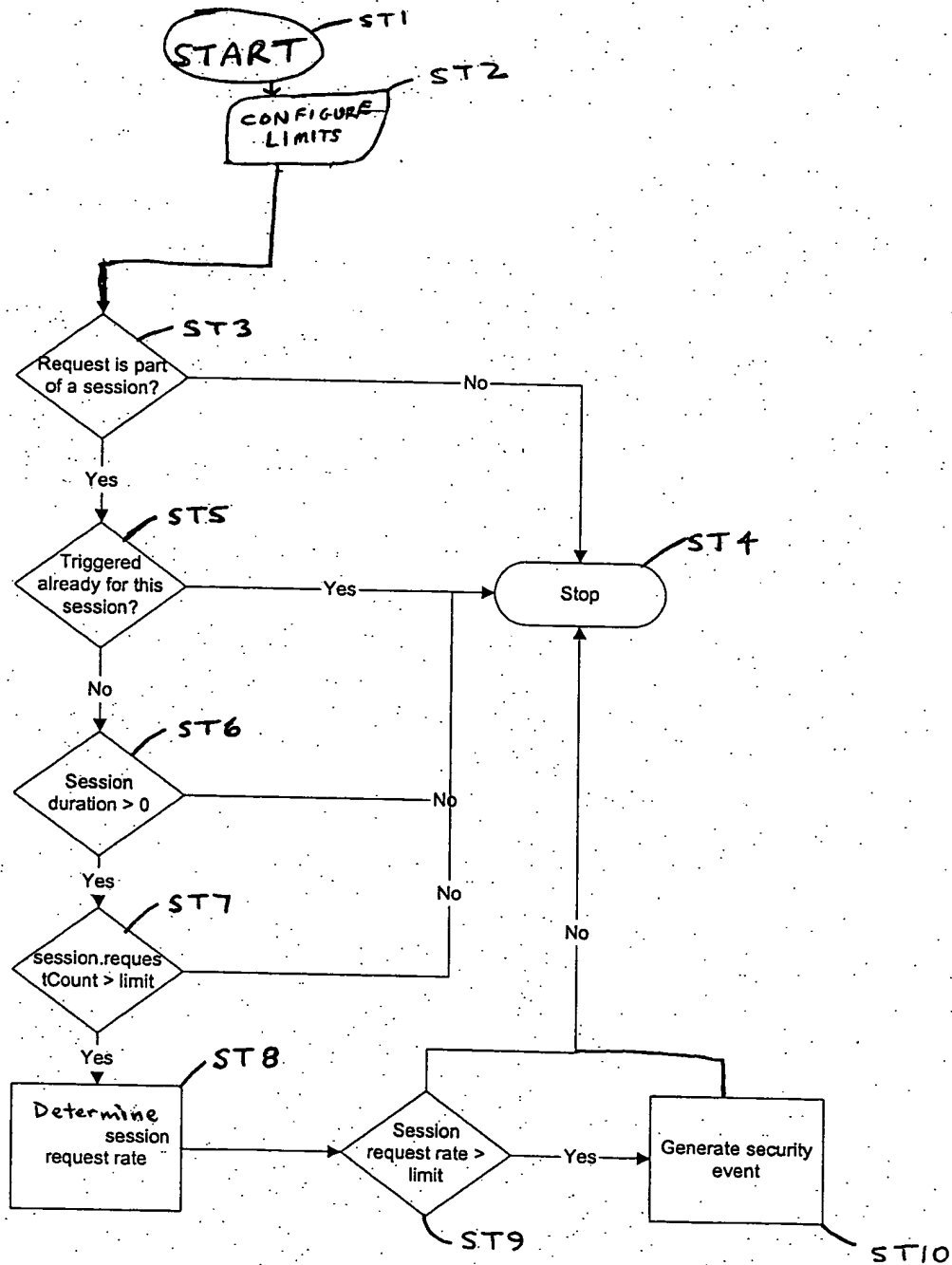
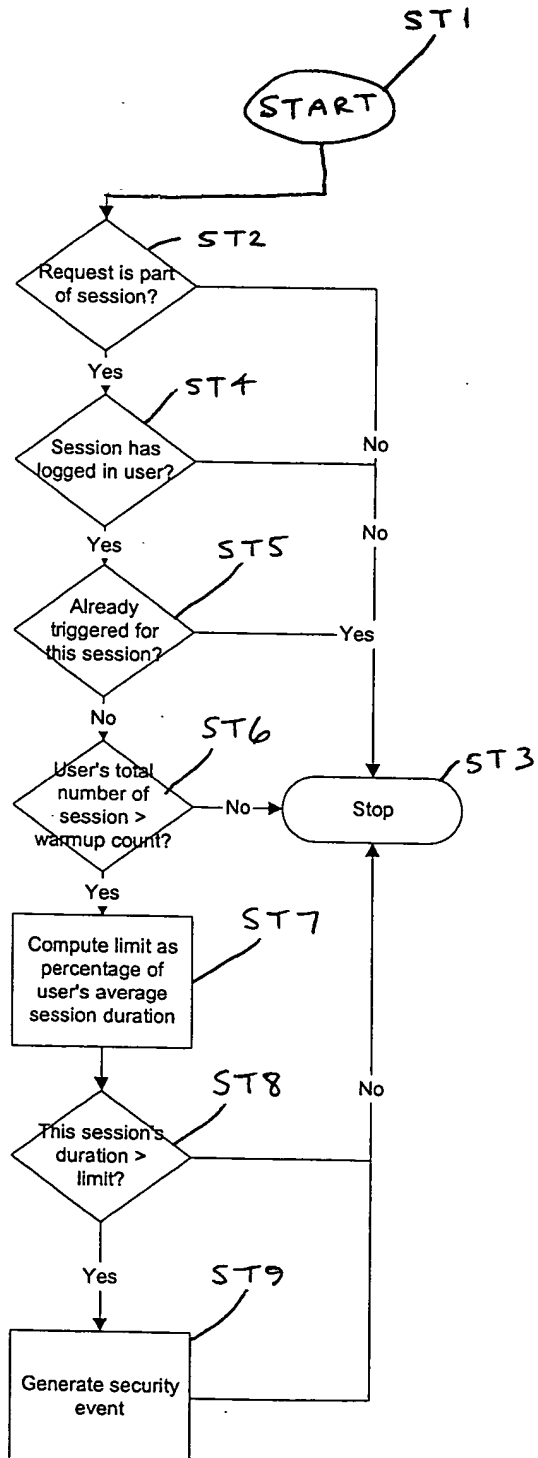


FIG. 19A

FIG. 19B

19 00
↓



1902
↓

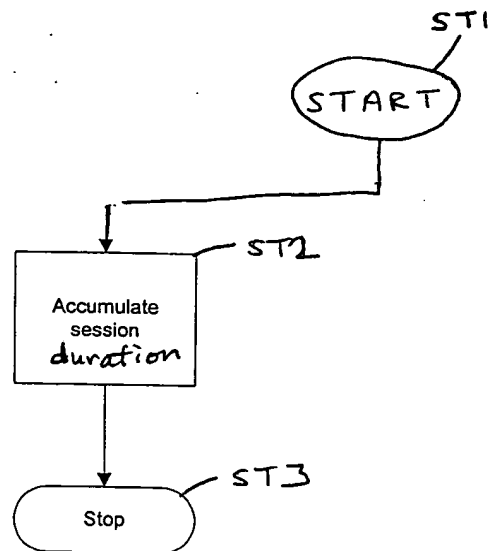


FIG. 20A

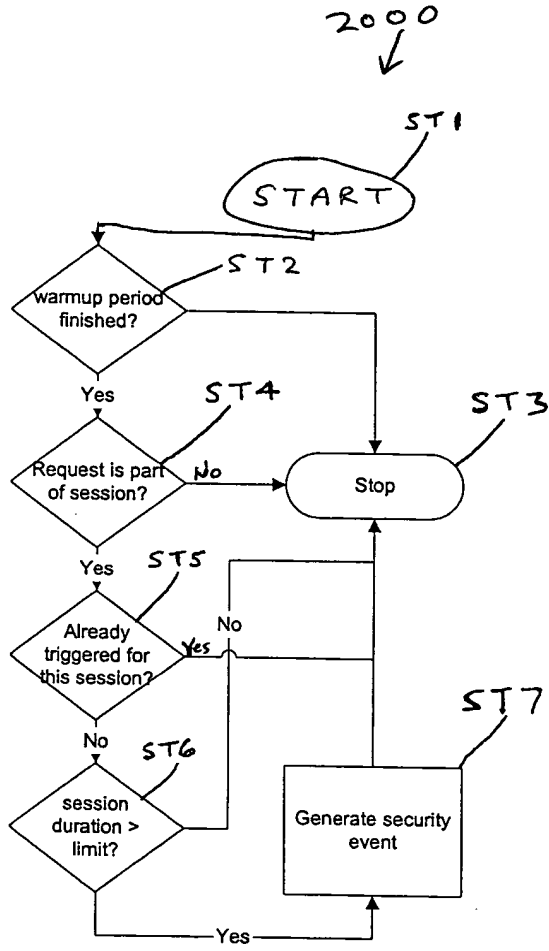
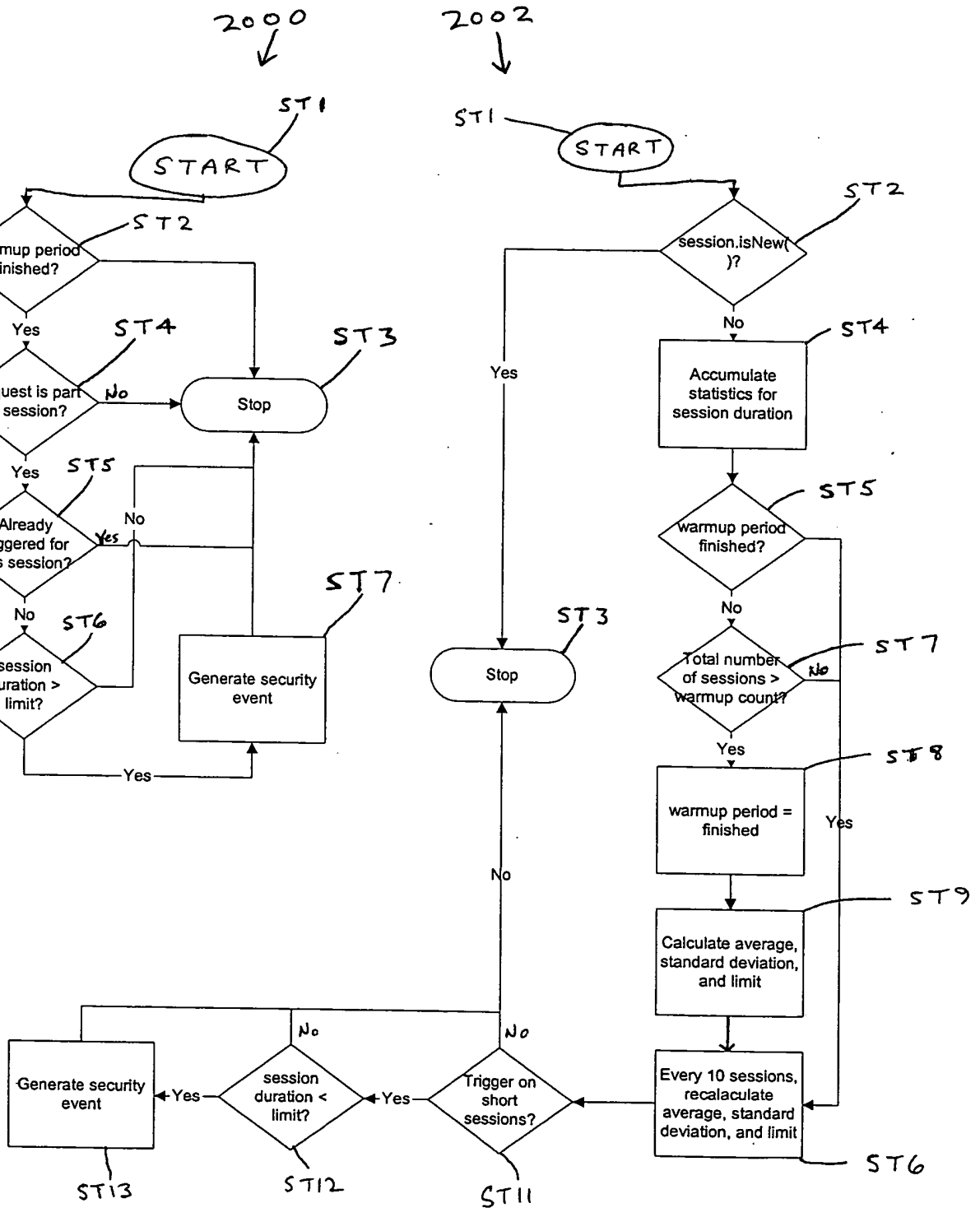


FIG. 20B



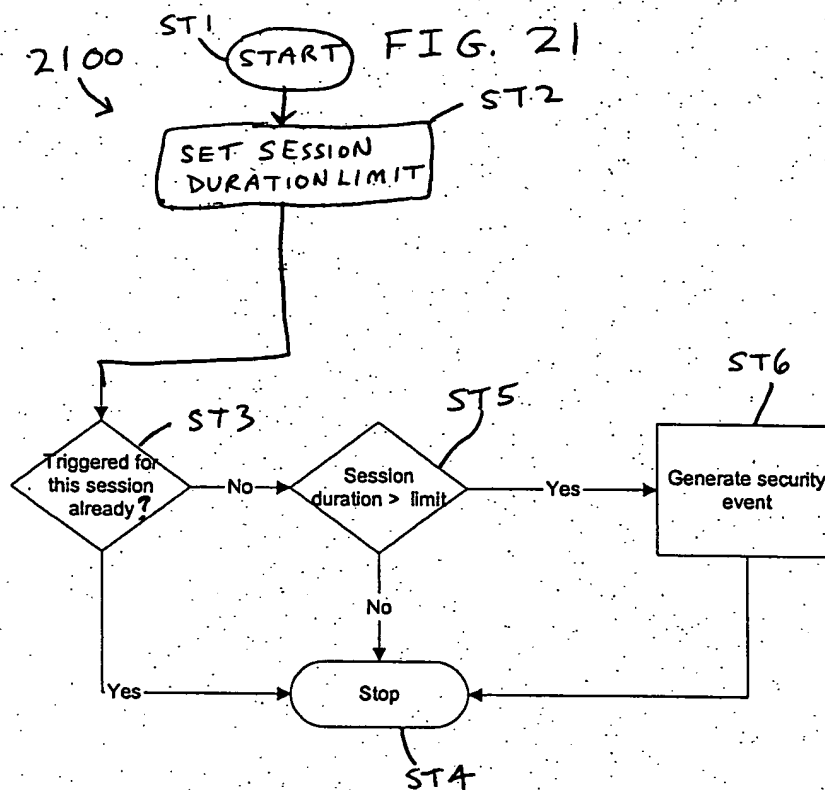


FIG. 22A

2200
↓

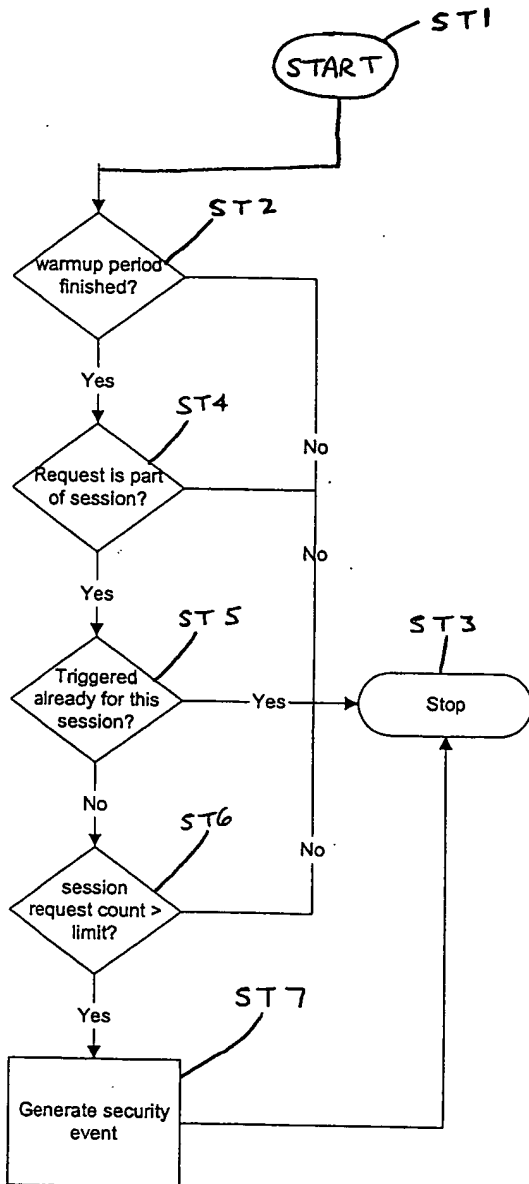


FIG. 22B

2202
↓

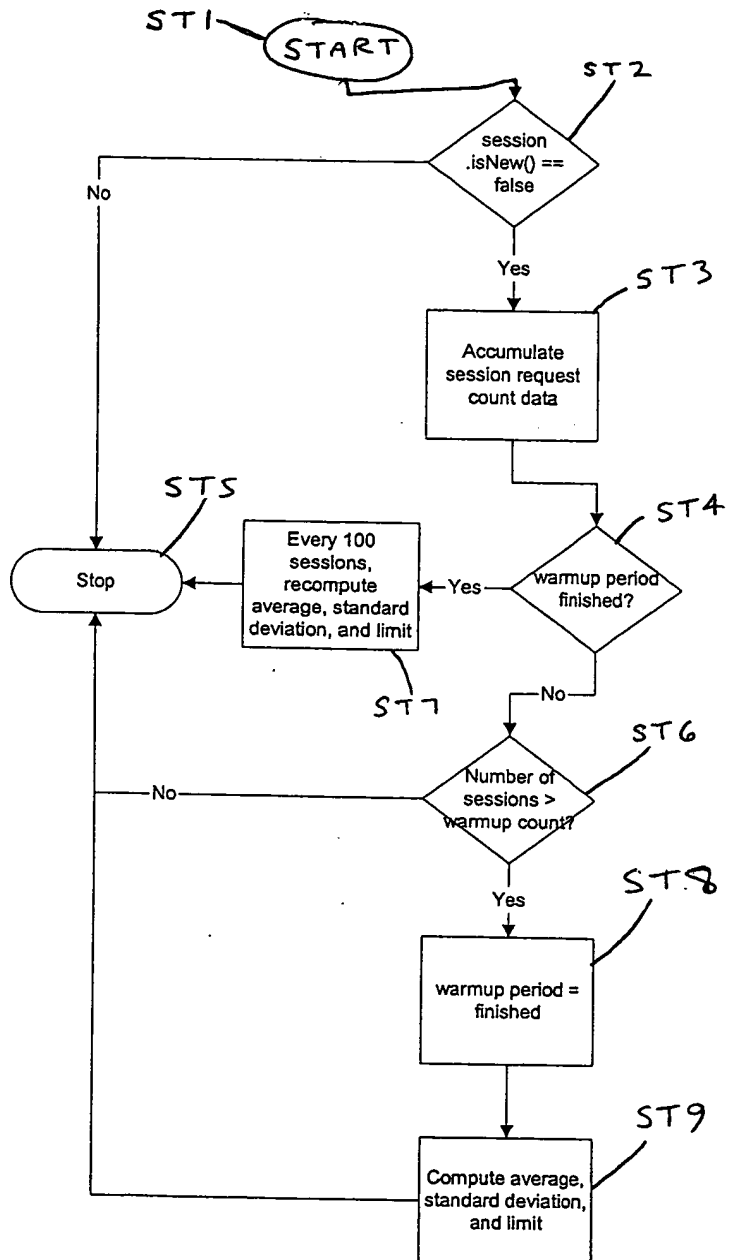


FIG. 23A

2300
↓

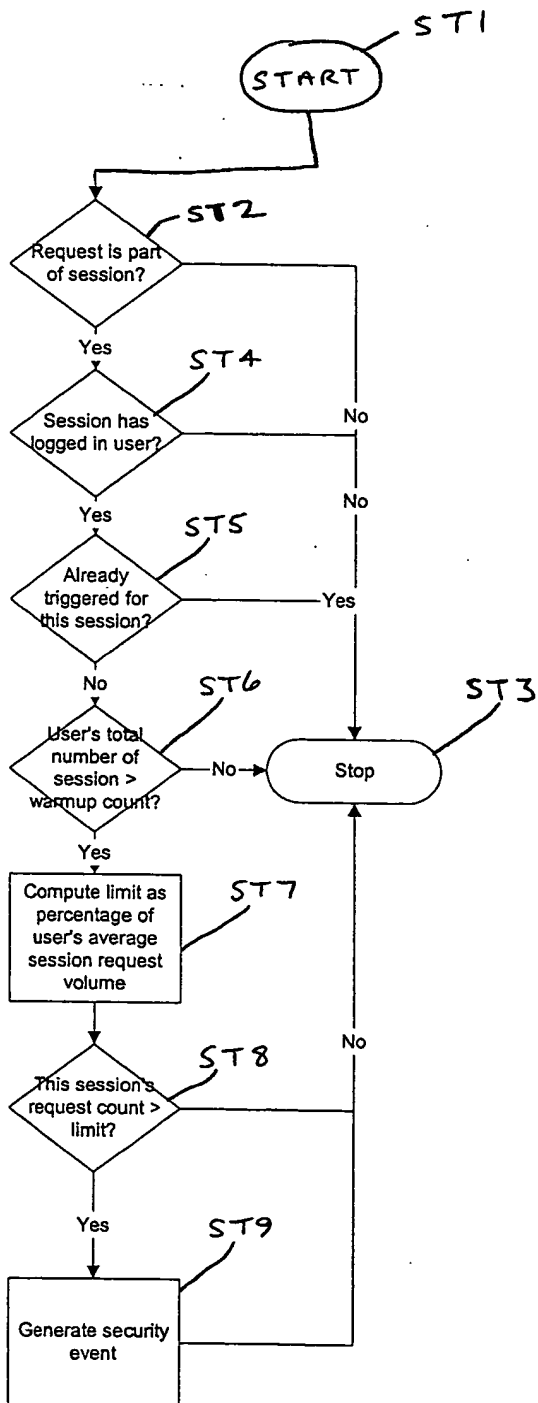


FIG. 23B

2302
↓

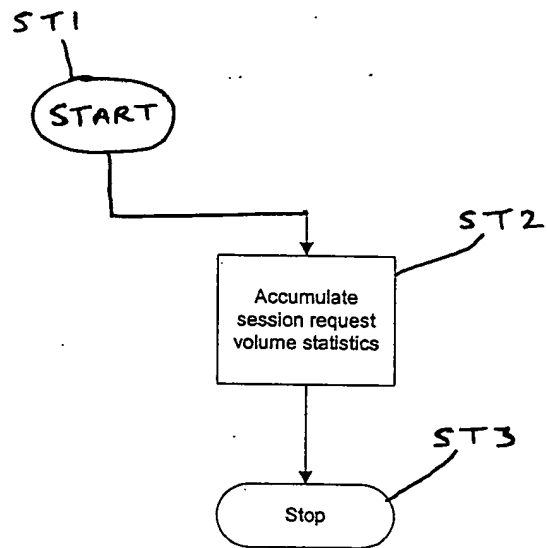


FIG. 24

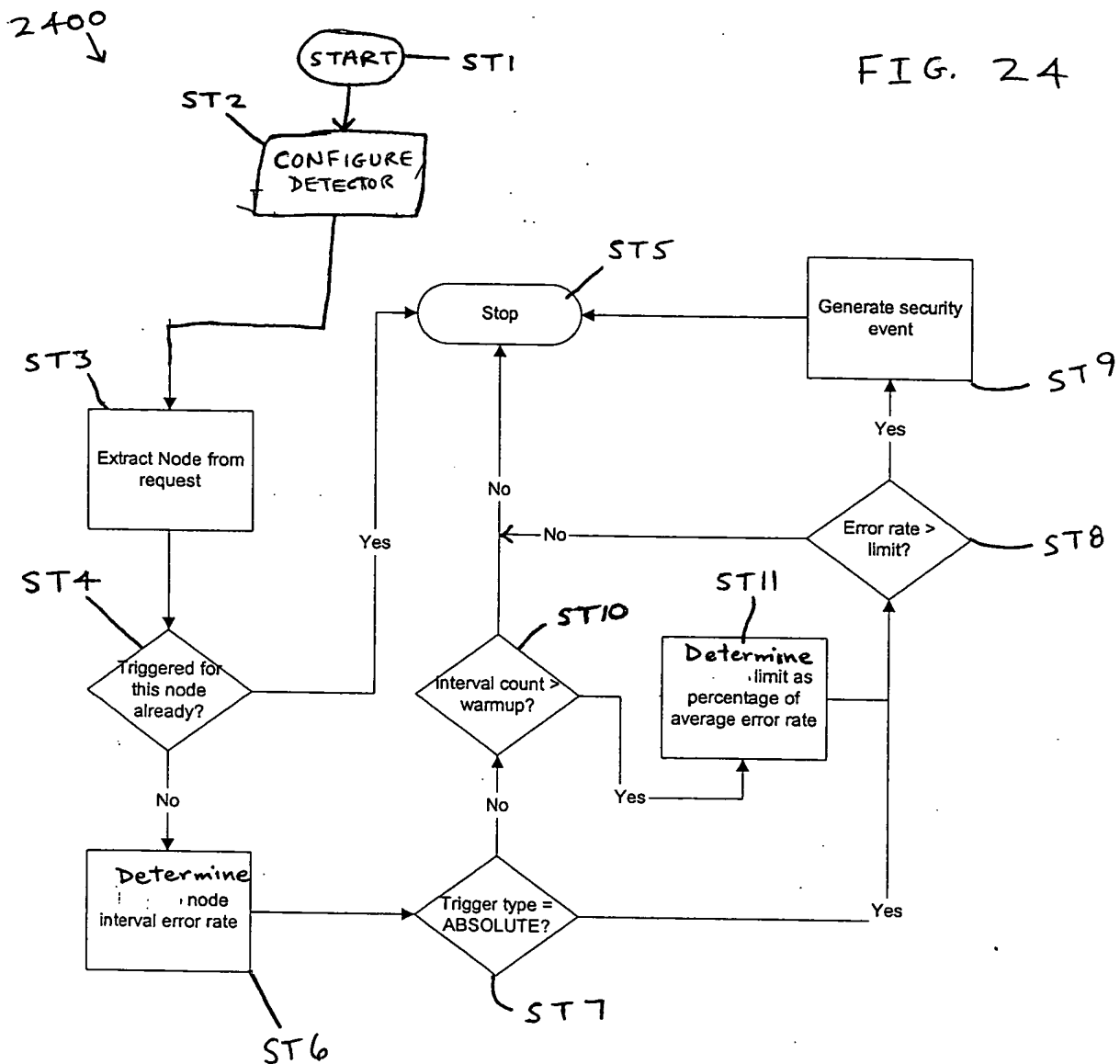
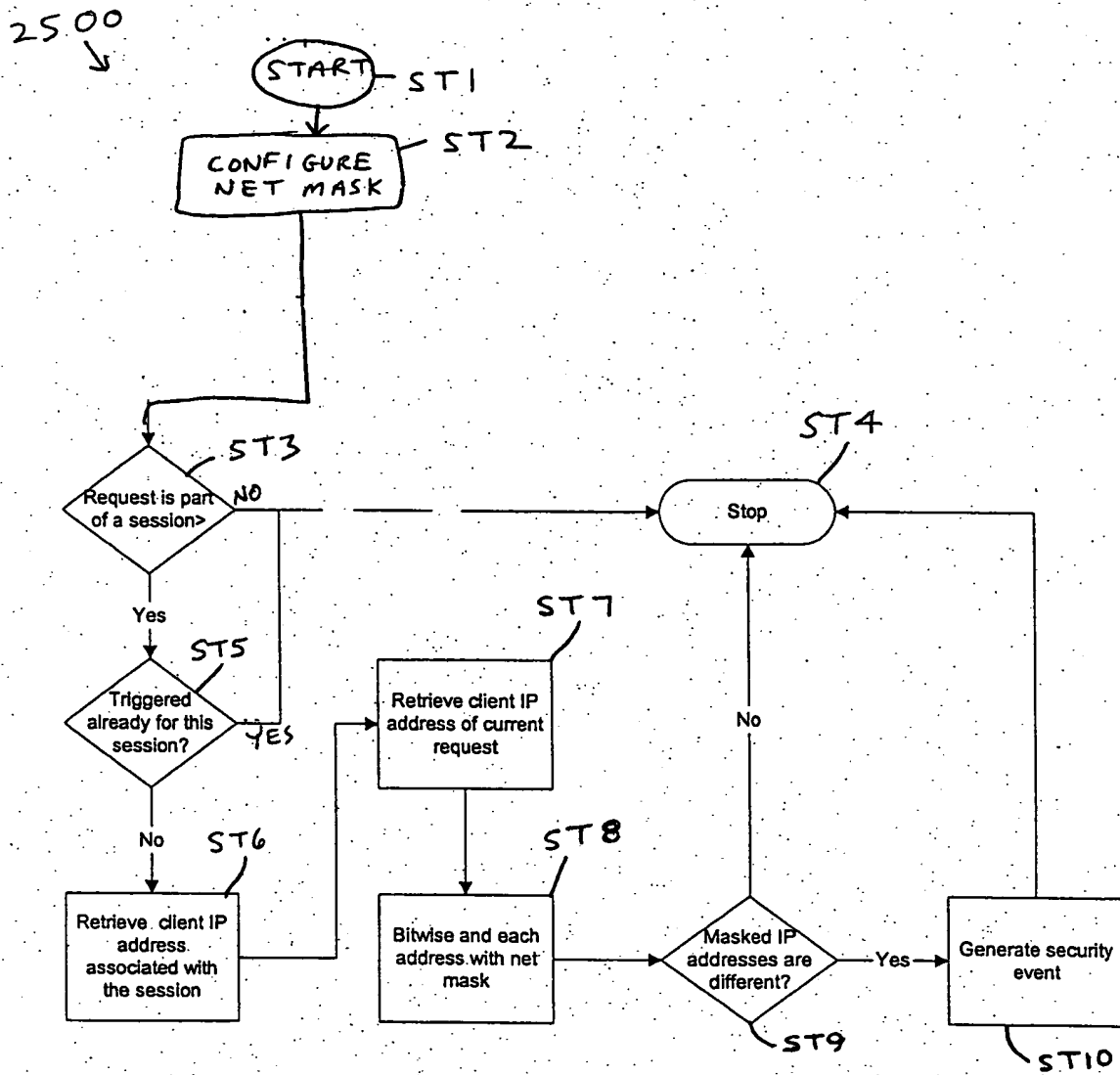


FIG. 25



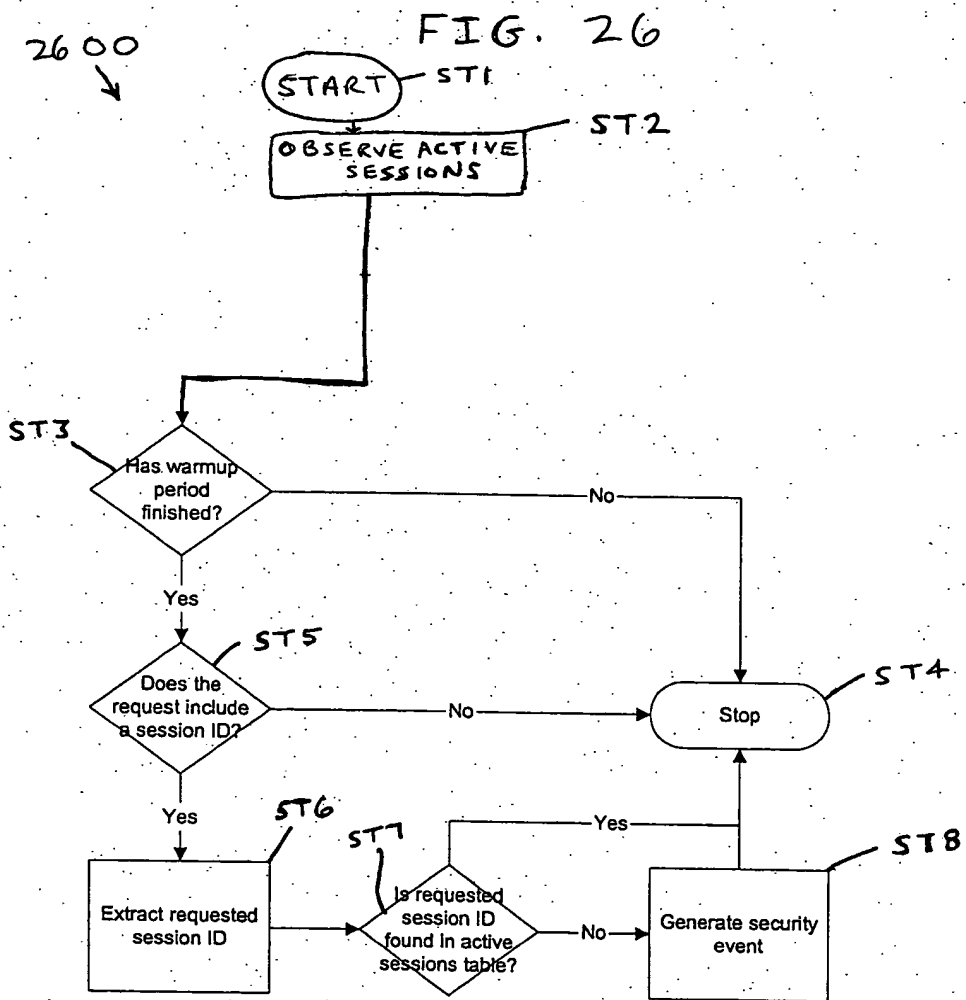
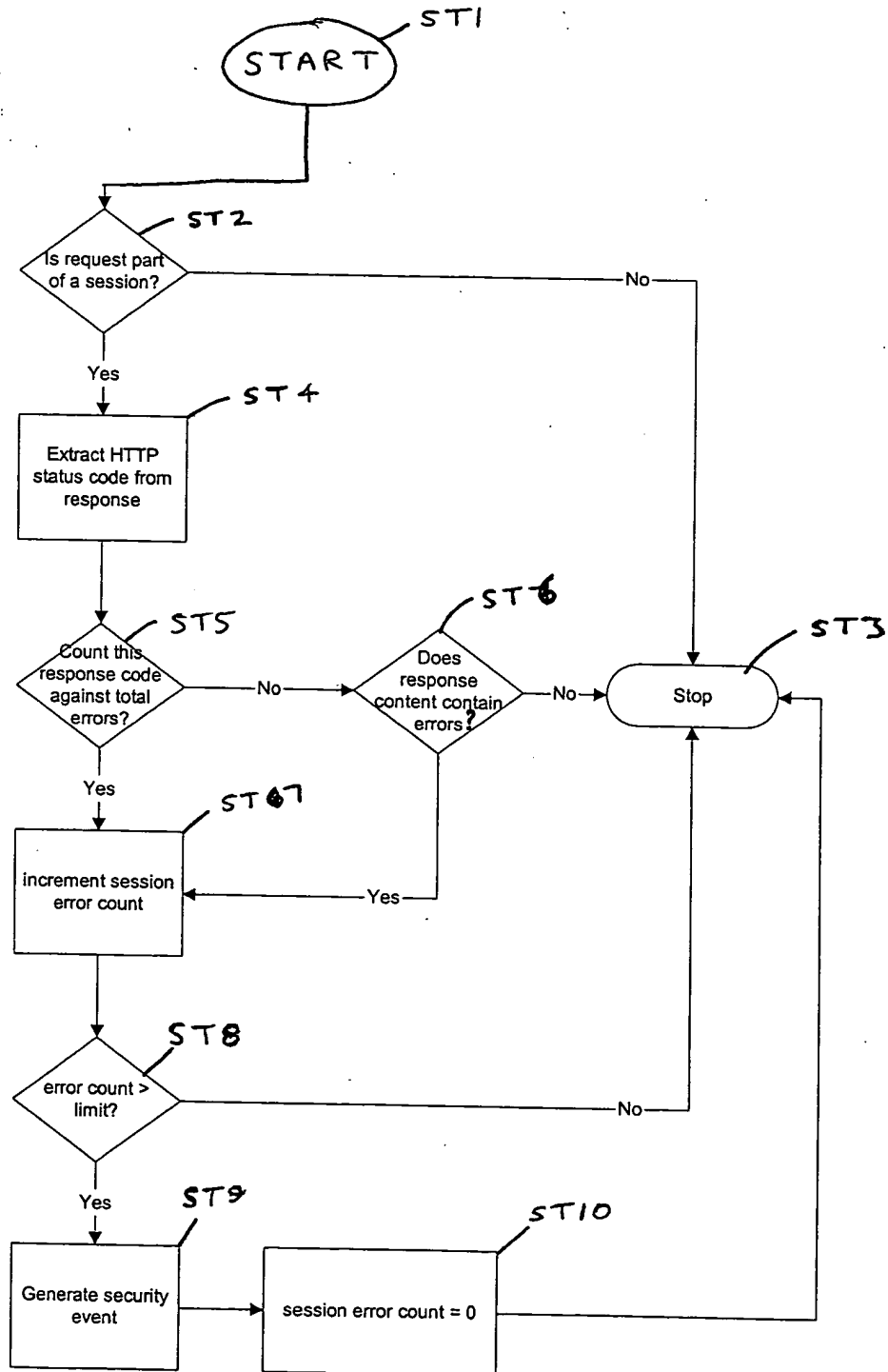


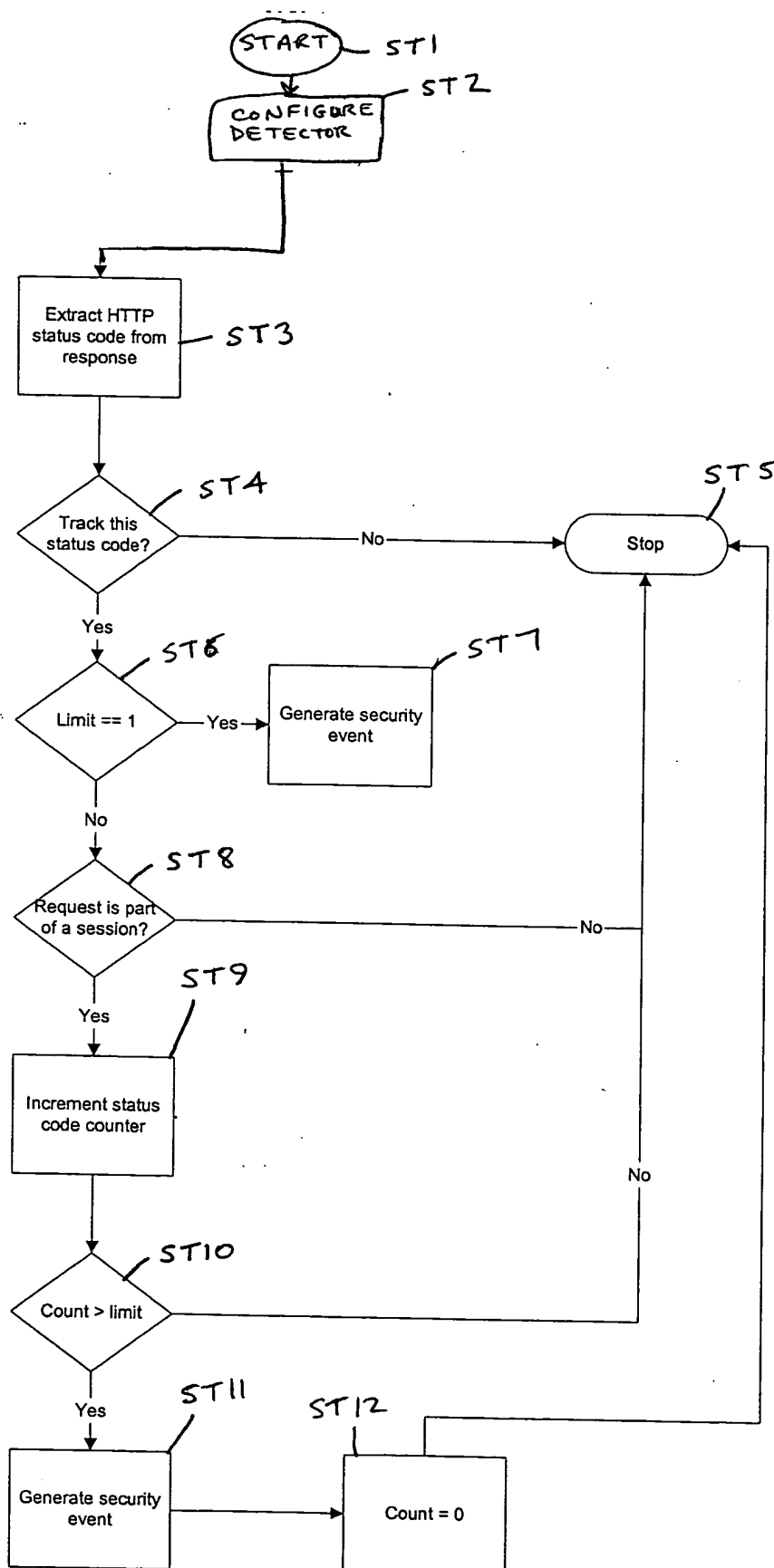
FIG. 27

2700
↓



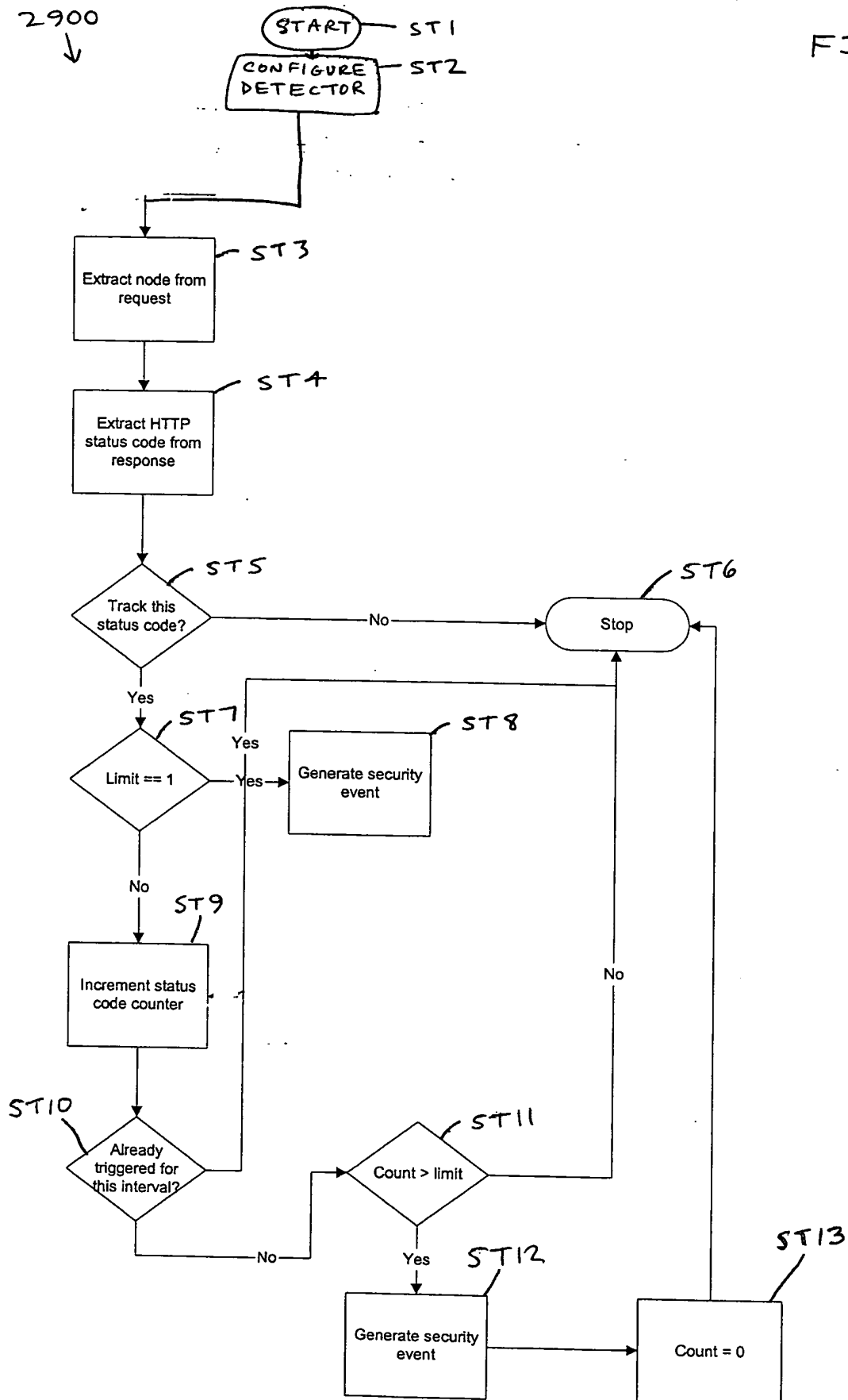
28.00
↓

FIG. 28



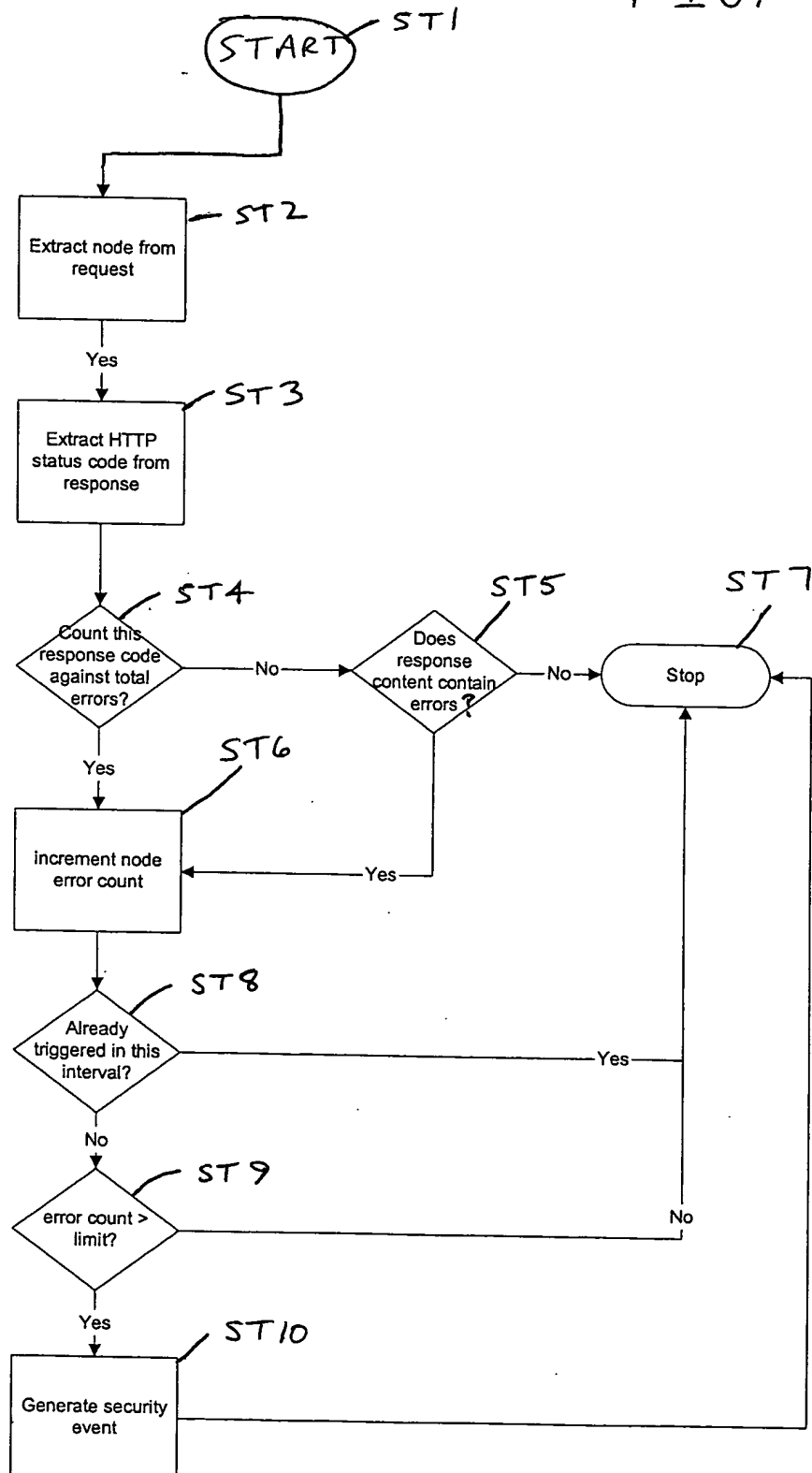
2900
↓

FIG. 29



3000
↓

FIG. 30



3100
↓

FIG. 31

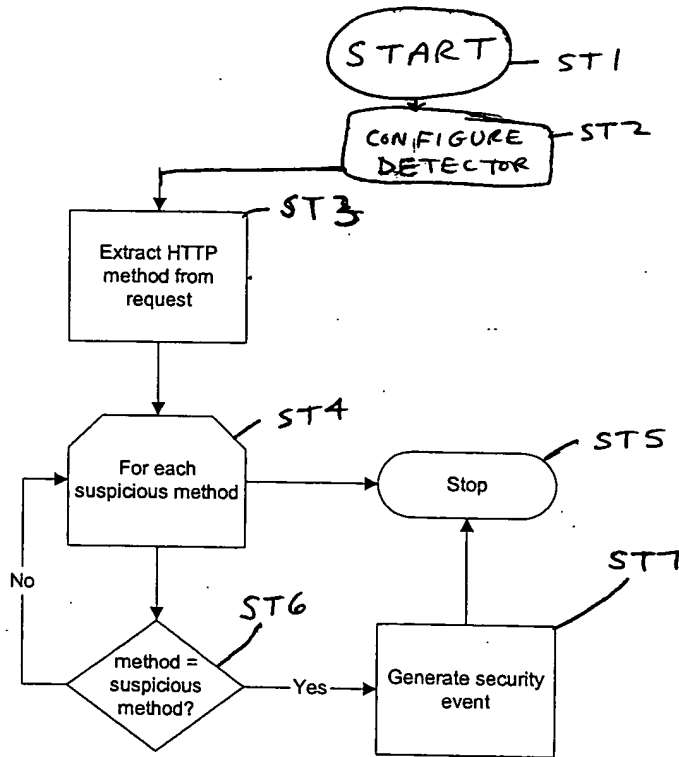
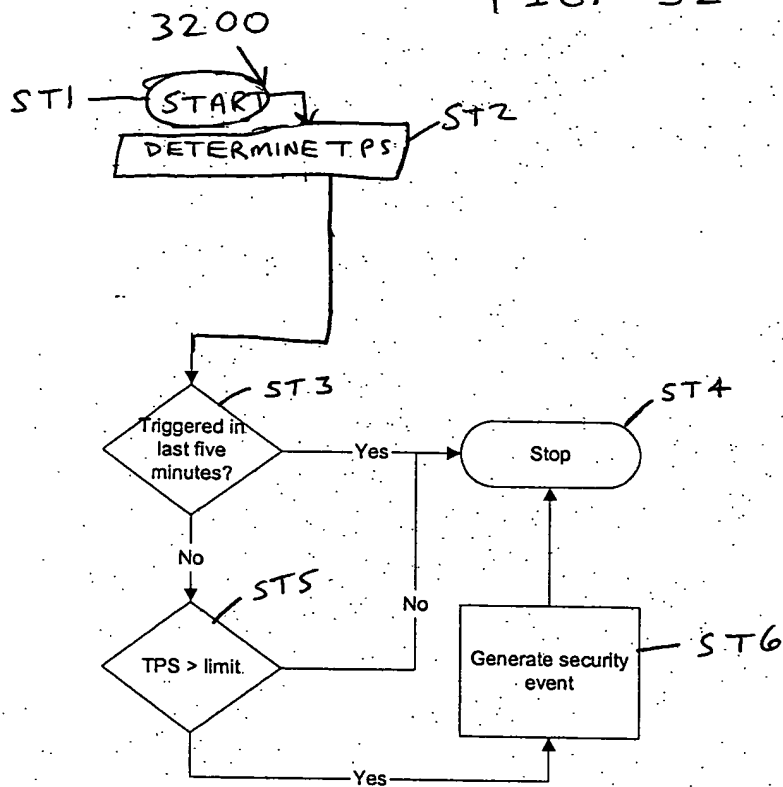


FIG. 32



3300 FIG. 33A.

FIG. 33B

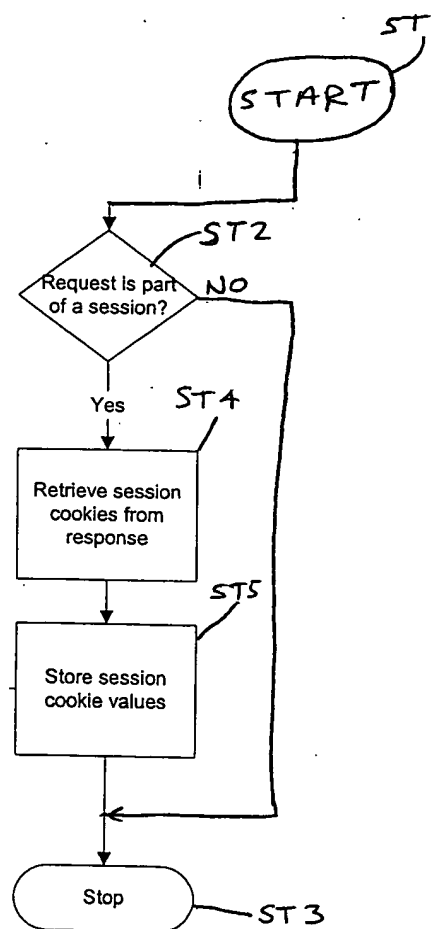
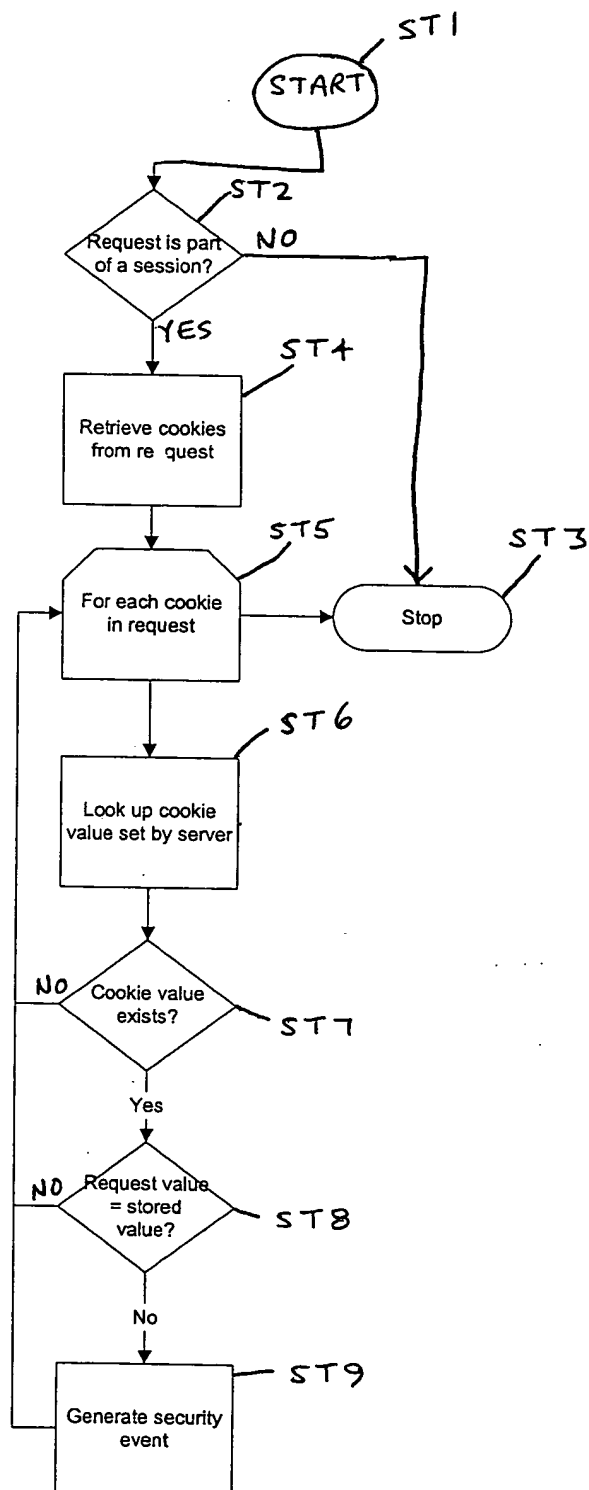


FIG. 34A

3400
↓

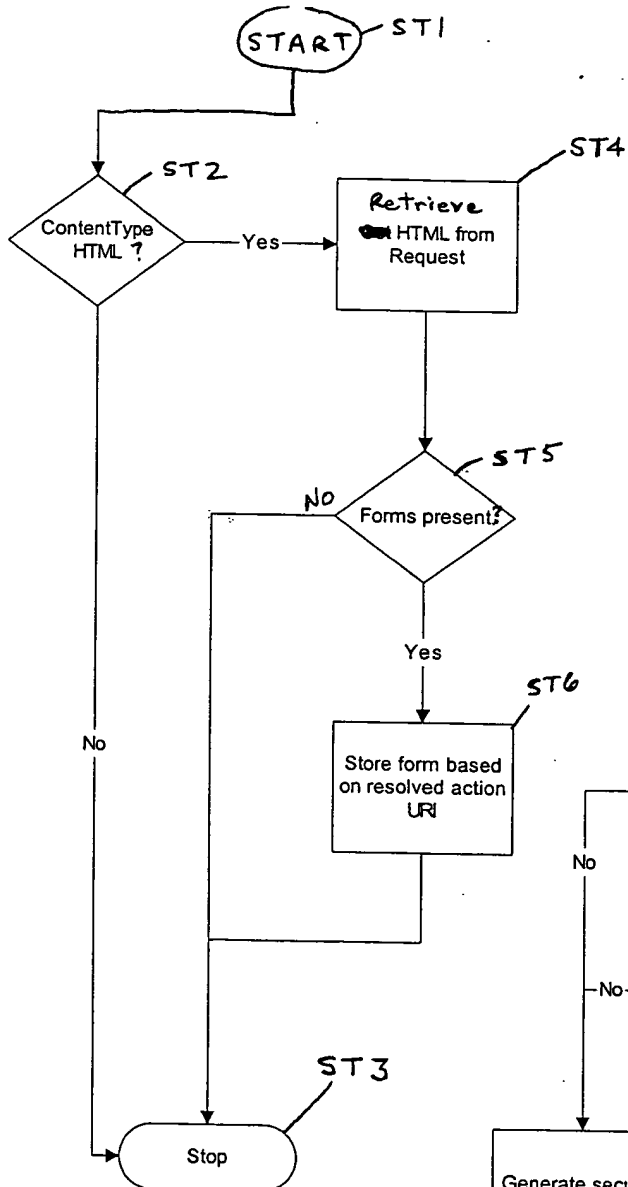


FIG. 34B

3402
↓

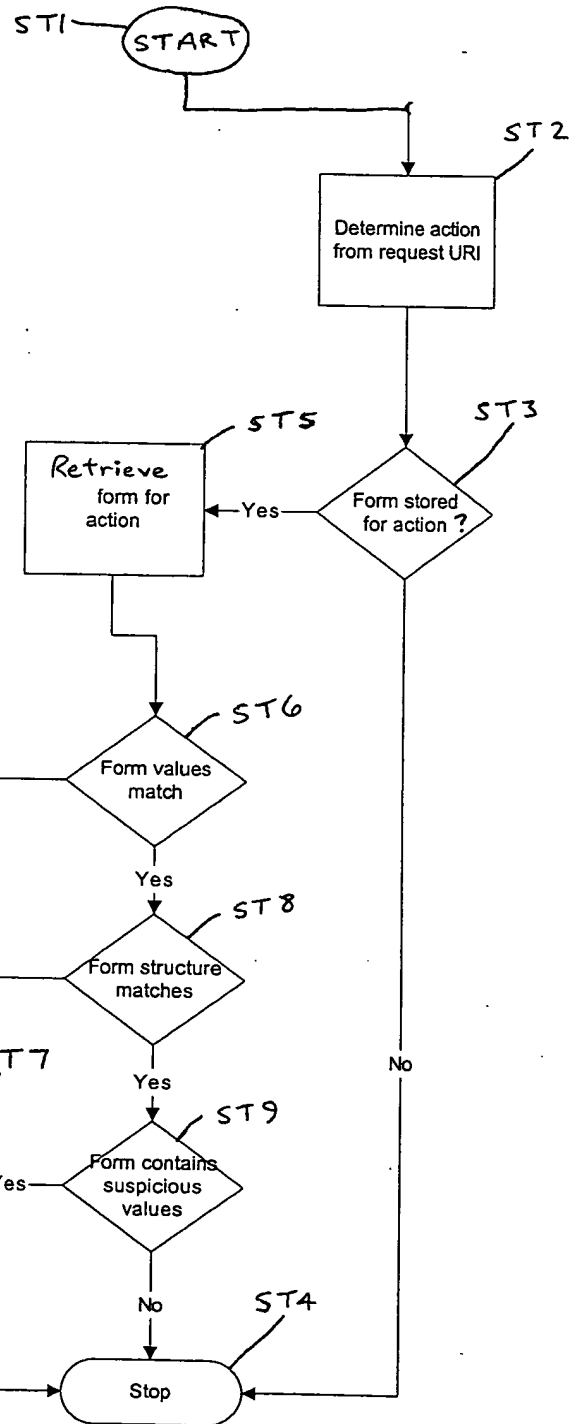


FIG. 35

3500

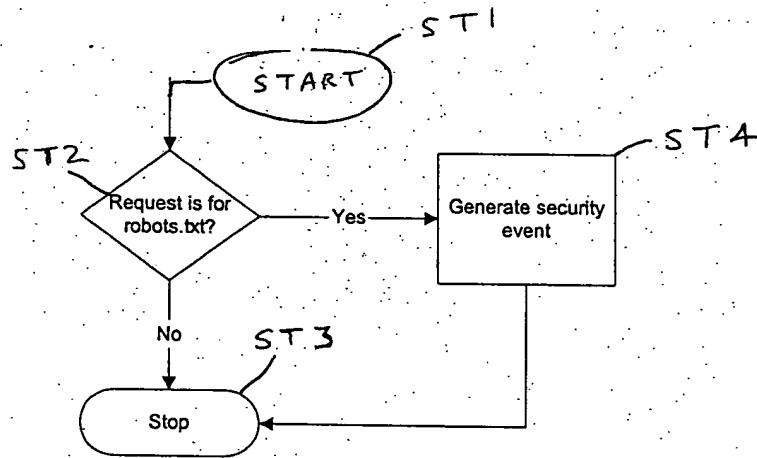


FIG. 36

3600
↓

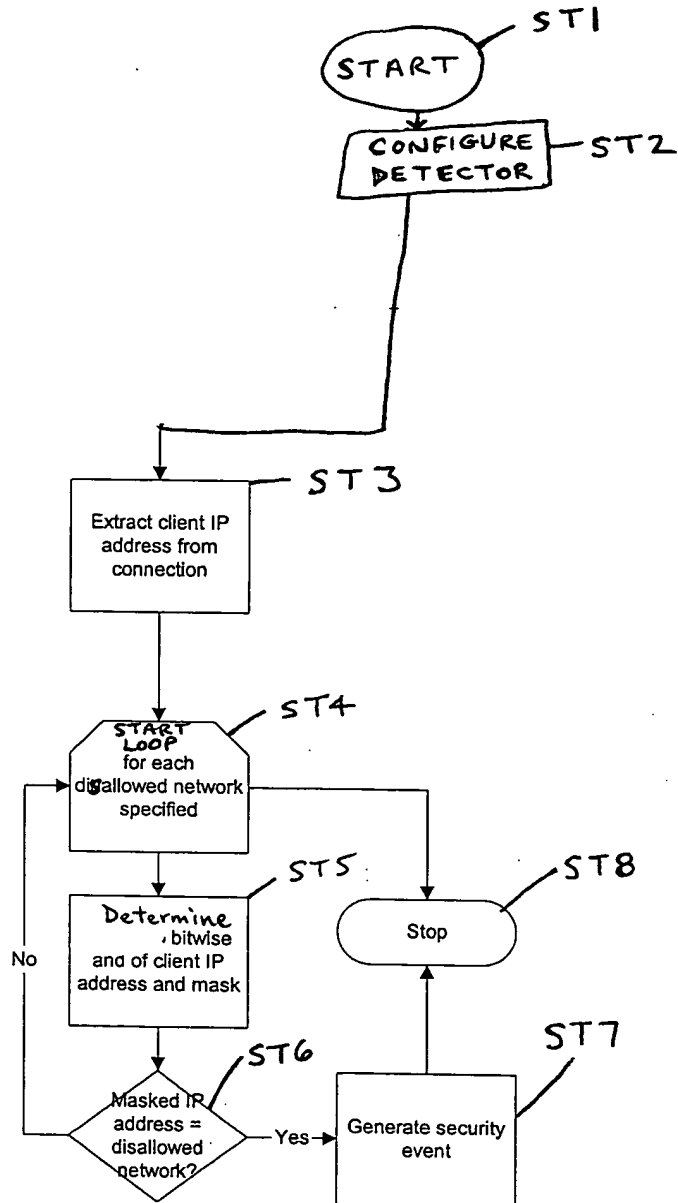


FIG. 37

3700
↓

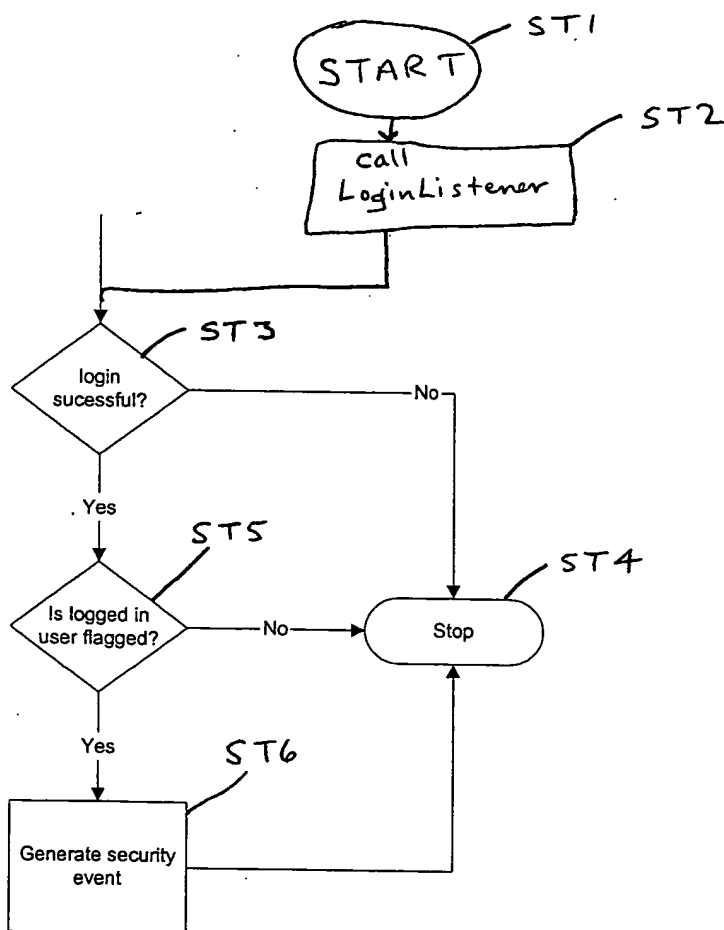


FIG. 38

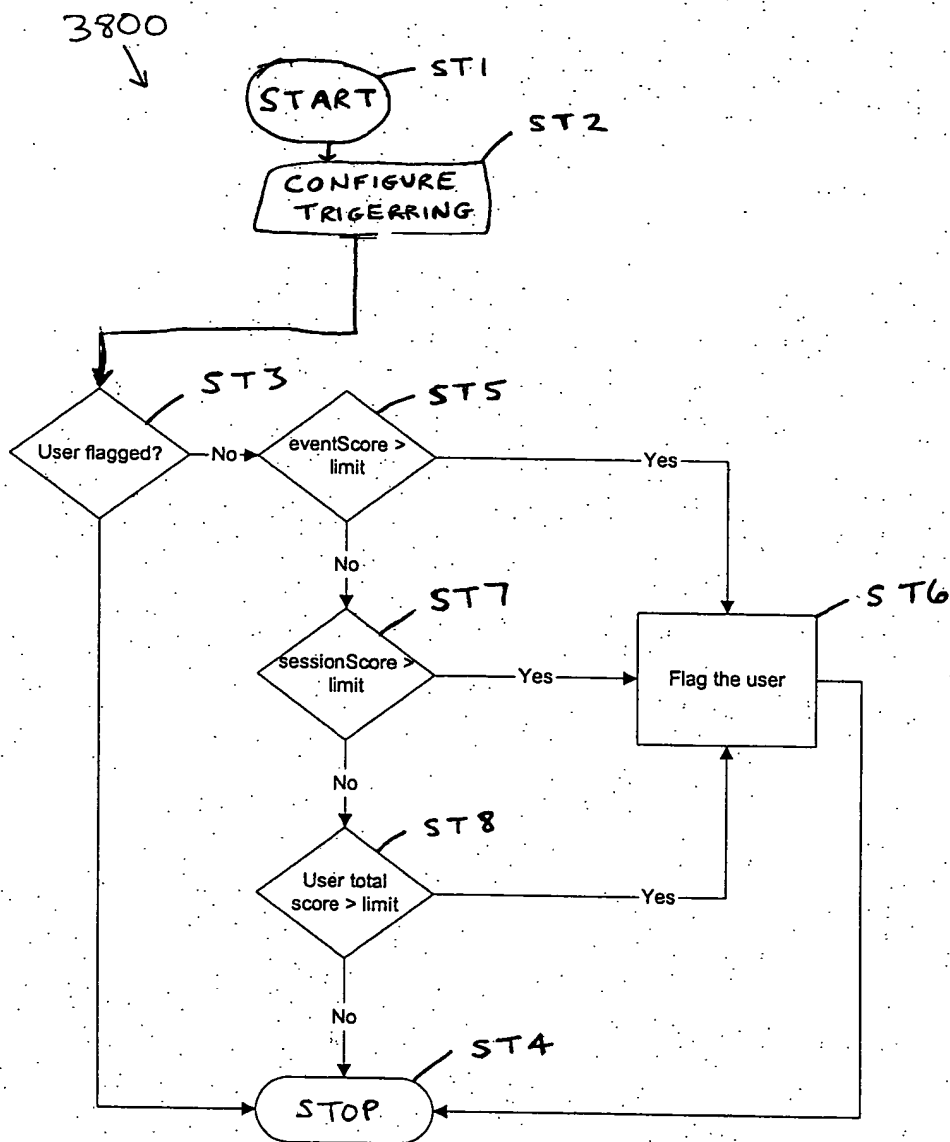
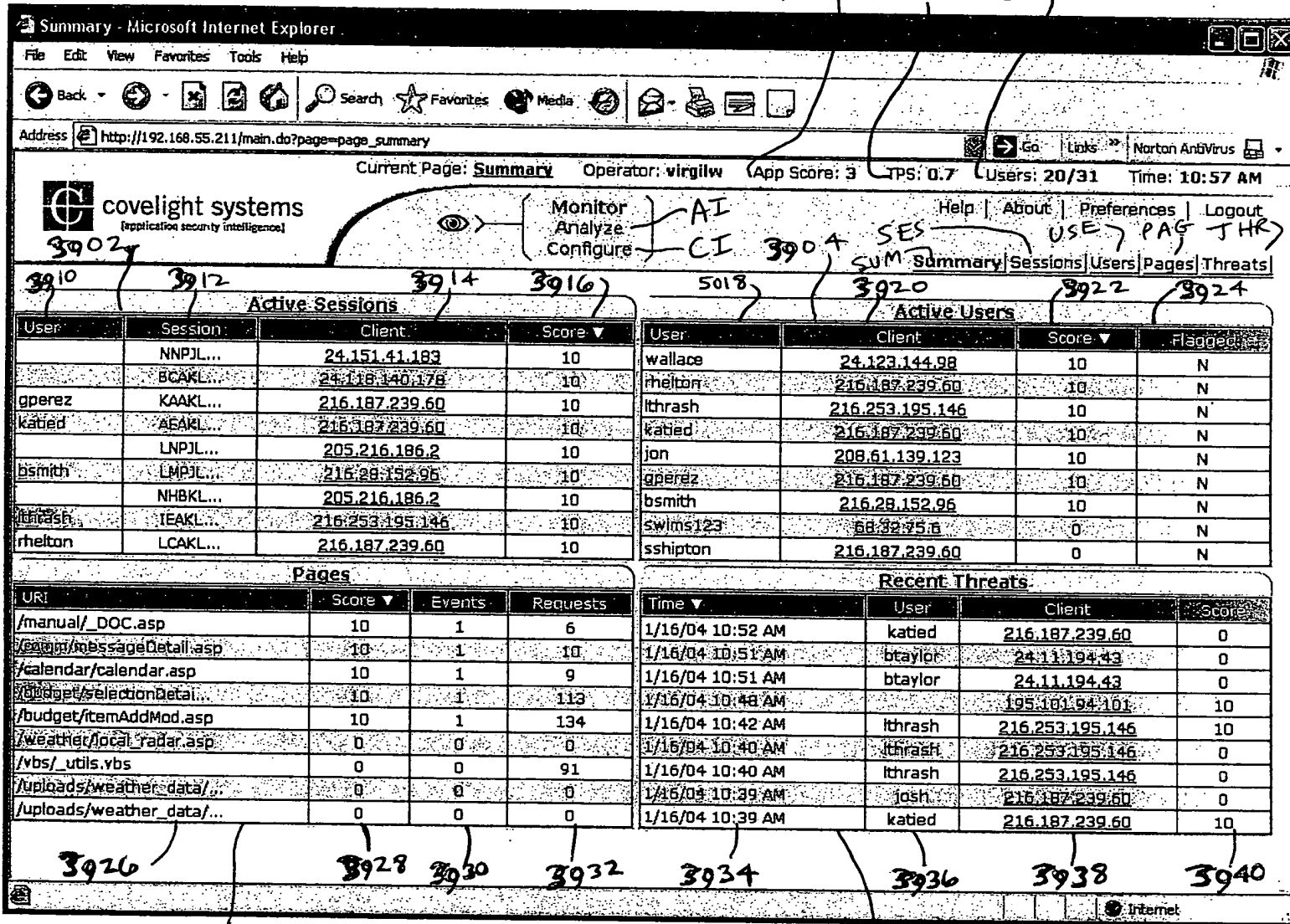


FIG.
39

APPS TPS USER



3906

3908

FIG.
40A

4000

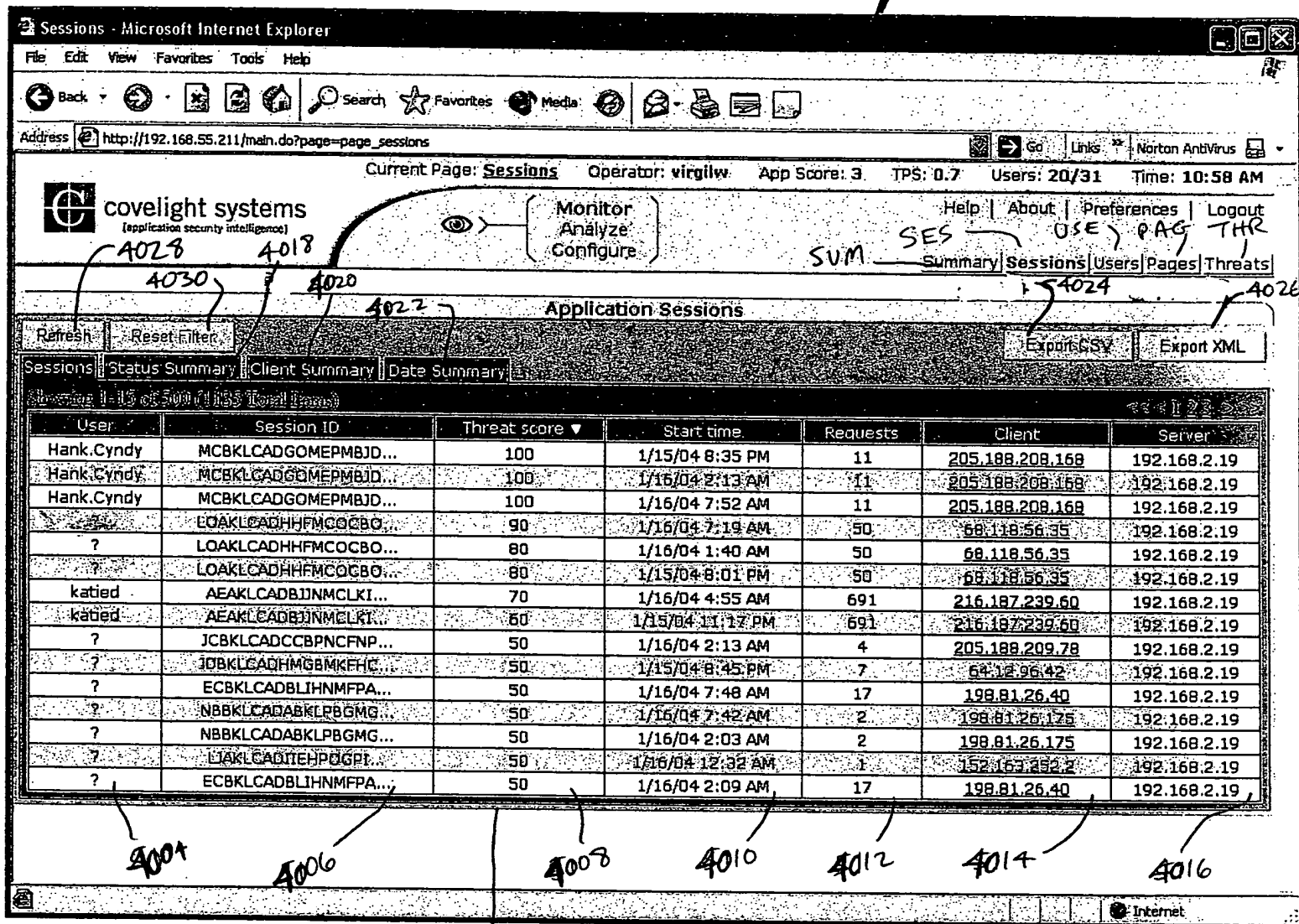


FIG. 40B

4032



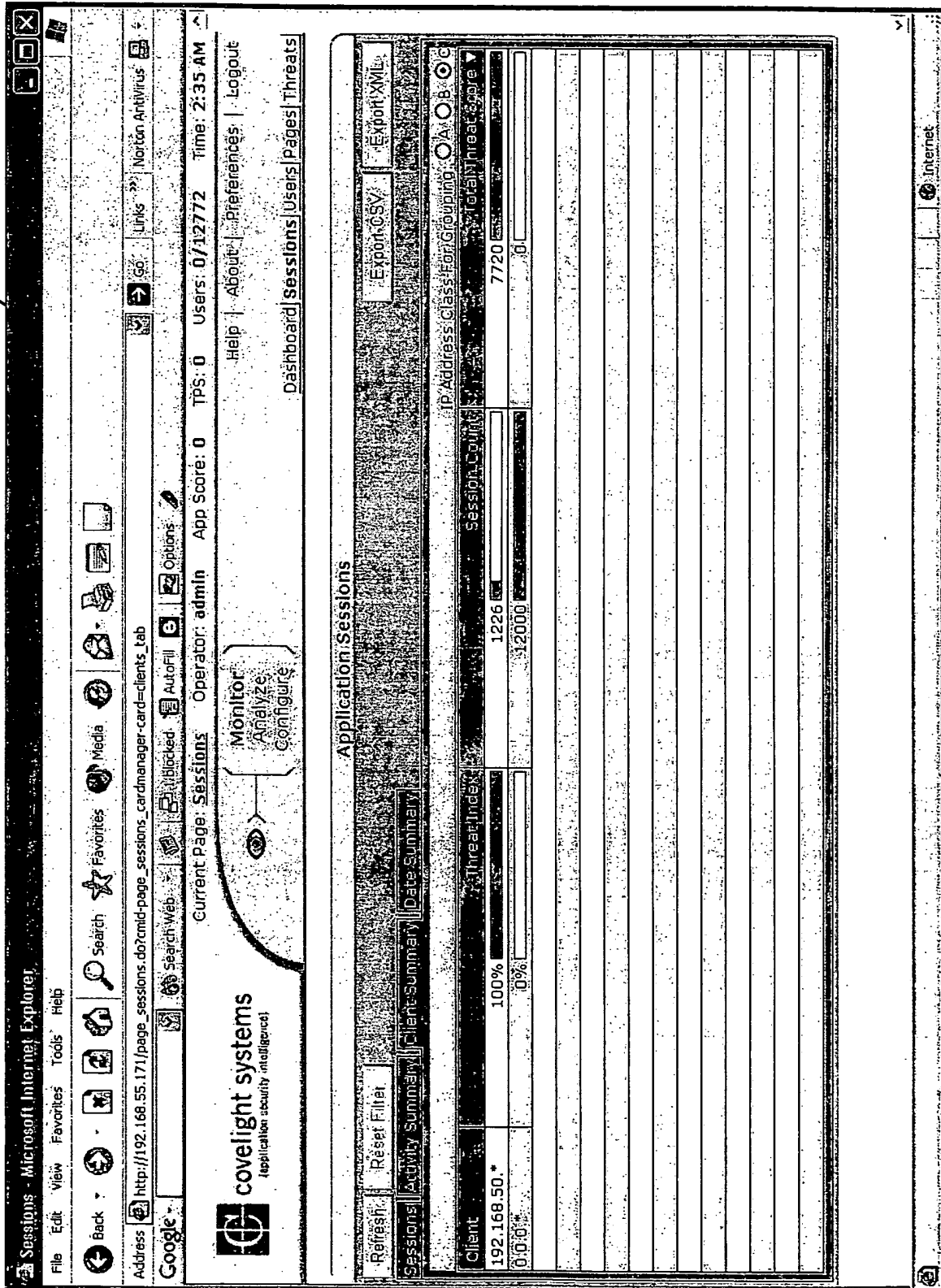


FIG. 40D

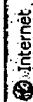


FIG.

41

4100


Session Detail - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail News RSS Feeds

Address http://192.168.55.211/page_sessions.do?rowlink=1074216912834120&tableindex=0&tableid=page_sessions_table Go Links Norton AntiVirus

Current Page: [Sessions](#) / [Session Detail](#) Operator: virgilw App Score: 3 TPS: 0.4 Users: 20/31 Time: 11:04 AM

 covelight systems
(application security intelligence)

 Monitor Analyze Configure

Help | About | Preferences | Logout

SUM SES USE PAG THR
Summary Sessions Users Pages Threats

Session Detail

Session: NGBKLCADGOMEPMB3DMNCAEON 1/500: Next>	
User: Hank.Cyndy (Search)	Login Method: Login Form
Start Time: 1/15/04 8:35 PM	Last Accessed Time: 1/15/04 8:36 PM
Client IP Address: 205.188.208.168 (Search)	Server IP Address: 192.168.2.19
Session Threat Score: 100	Request Count: 11
Threats: 4	
View Transactions	View Threats

Done Internet

4102

4104

FIG.

4200

42

Users - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS

Address http://192.168.55.211/mah.do?page=page_users Go Links Norton Antivirus

Current Page: **Users** Operator: virgilw App Score: 3 TPS: 0.5 Users: 20/31 Time: 10:58 AM

covelight systems
(application security intelligence)

Monitor Analyze Configure

Help | About | Preferences | Logout

SUM7 SES USE PAG THR
Summary Sessions Users Pages Threats

Application Users

Refresh Reset Filter Export CSV Export XML

Users | Flagged Summary | Client Summary | Last Login Summary

Showing 15 of 31 (31 Total Items)

	User	Current Score ▼	Max Score	Total Score	Total Requests	Avg Requests	Client	Flagged
<input type="checkbox"/>	wallace	10	10	50	82	13	24.123.144.98	N
<input type="checkbox"/>	rhelton	10	20	40	60	20	216.187.239.60	N
<input type="checkbox"/>	lthrash	10	30	100	520	57	216.253.195.146	N
<input type="checkbox"/>	katied	10	70	80	1382	172	216.187.239.60	N
<input type="checkbox"/>	jon	10	25	50	888	296	208.61.139.123	N
<input type="checkbox"/>	gperez	10	20	40	212	70	216.187.239.60	N
<input type="checkbox"/>	bsmith	10	20	40	258	86	216.28.152.96	N
<input type="checkbox"/>	swims123	0	10	20	124	41	68.32.75.6	N
<input type="checkbox"/>	sshington	0	10	20	36	12	216.187.239.60	N
<input type="checkbox"/>	sdarden	0	10	20	78	26	198.143.244.44	N
<input type="checkbox"/>	scavender	0	10	30	15	5	216.187.239.60	N
<input type="checkbox"/>	rwarburton	0	40	160	506	46	216.187.239.60	N
<input type="checkbox"/>	mtaylor	0	20	50	598	149	66.180.103.154	N

Reset Delete Search

Internet

4204

4206

4208

4210

4212

4214

4216

4218

4202

FIG. 43

4300


Users - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_users.do?rowlink=wallace&tableindex=0&tableid=page_users_table Go Links Norton AntiVirus

Current Page: [Users / User Detail](#) Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:05 AM

 **covelight systems**
(application security intelligence)

 [Monitor](#) [Analyze](#) [Configure](#)

[Help](#) [About](#) [Preferences](#) [Logout](#)

[Summary](#) [Sessions](#) [Users](#) [Pages](#) [Threats](#)

Handwritten: SUM SES USE PAG THR

User Detail

User: [wallace](#) 1/31 Next >

Current Threat Score:	10	Last Login Time:	1/16/04 9:33 AM
Average Session Score:	8	Longest Session Duration:	1m 36s
Highest Session Score:	10	Average Session Duration:	52 s
Total Threat Score:	50	Total Session Time:	5m 13s
Total Threat Count:	11	Last Client IP Address:	24.123.144.98 (Search)
Total HTTP Requests:	82	Last Server IP Address:	192.168.2.19
Average HTTP Requests Per Session:	13	Active Sessions:	2
Last Reset:	Never	Total Sessions:	6

[View Transactions](#) [View Threats](#)

Flagged: ☐ Notes: [Apply](#)

Handwritten: 4302 4304

Done Internet

Title: METHODS, SYSTEMS AND COMPUTER
PROGRAM PRODUCTS FOR
MONITORING PROTOCOL RESPONSES
FOR A SERVER APPLICATION

Atty Docket: 1503/9

FIG.
44

4400

Pages - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print

Address http://192.168.55.211/main.do?page=page_nodes Go Links Norton AntiVirus

Current Page: **Pages** Operator: **virgilw** App Score: **3** TPS: **0.5** Users: **20/31** Time: **10:58 AM**

covelight systems (Application security intelligence)

Help | About | Preferences | Logout

4420 Monitor Analyze Configure **4402**

Summary Sessions Users Pages Threats

Application Pages **4424** **4426**

Refresh Reset Filter Export CSV Export XML

Pages | Flagged Summary | Content-Type Summary | Last Accessed Summary

Showing 1-10 of 232 (232 Total Items)

Page	Current Score	Average Score	Threat Count	Request Count	Avg Requests	Flagged
<input type="checkbox"/> /manual/_DOC.asp	10	1	1	6	184	N
<input type="checkbox"/> /comim/messageDetail.asp	10	2	1	10	1140	N
<input type="checkbox"/> /calendar/calendar.asp	10	26	1	9	158	N
<input type="checkbox"/> /budget/selectionDetail.asp	10	3	1	113	3839	N
<input type="checkbox"/> /budget/itemAddMod.asp	10	1	1	134	1696	N
<input type="checkbox"/> /weather/local_radar.asp	0	0	0	0	0	N
<input type="checkbox"/> /vbs/_utils.vbs	0	0	0	91	1	N
<input type="checkbox"/> /uploads/weather_data/icons/88.gif	0	0	0	0	0	N
<input type="checkbox"/> /uploads/weather_data/icons/87.gif	0	0	0	0	0	N
<input type="checkbox"/> /uploads/weather_data/icons/85.gif	0	0	0	5	0	N

Delete Selected Reset All Search

Current Interval Ends At: 1/16/04 11:00 AM Last Reset: Never

Internet

4428

4430

4412 4414

FIG.

45

4500


Page Detail - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address http://192.168.55.211/page_nodes.do?rowlink=%2Fmanual%2F_DOC.asp&tableindex=0&tableid=page_nodes_table Go Links Norton AntiVirus

Current Page: **Pages / Page Detail** Operator: virgilw App Score: 3 TPS: 1.2 Users: 20/31 Time: 11:05 AM

 **covelight systems**
(application security intelligence)

 **Monitor**
Analyze
Configure

Help | About | Preferences | Logout

SUM (SES) USE PAG THR
Summary | Sessions | Users | Pages | Threats

Page Detail

Page: /manual/_DOC.asp 1/252 Next>

Content-Type:	text/html (Search)	Max Interval Score:	10
Total Score:	30	Interval Score:	0
Total Threat Count:	3	Interval Threat Count:	0
Total Request Count:	88	Interval Request Count:	0
Average Score:	1	Average Response Time:	0
Interval Count:	19	Previous Interval Score:	10
Last Accessed:	1/16/04 10:16 AM		

[View Transactions](#) [View Threats](#)

Last Reset: Never

Current Interval Ends At: 1/16/04 12:00 PM

Flagged: ☐ Apply

Done Internet

4502

4504

FIG.
46A

4600

Threats - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.55.211/main.do?page=page_events Go Links Norton AntiVirus

Current Page: **Threats** Operator: virgilw App Score: 3 TPS: 0.5 Users: 20/31 Time: 10:58 AM

covelight systems
[application security intelligence]

4618 4620 4622 4626 SUM SES USE PAG THR
Summary Sessions Users Pages Threats

4624 Threats 4628 4630

Refresh Reset Filter Export CSV Export XML

Threats | Detector Summary | Page Summary | Client Summary | Server Summary | Date Summary

Showing 1-15 of 104 (104 Total Items)

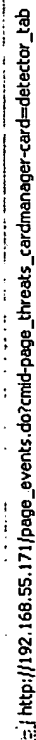
Timestamp	Score	Detector	Request URI	User	Flagged	Client
1/15/04 11:53 PM	20	Simultaneous login	/project/project.asp	rwarburton	N	216.187.239.60
1/15/04 11:45 PM	10	Login time does not match acceptable window	/auth/login.asp	rwarburton	N	65.140.140.189
1/15/04 11:45 PM	0	User login	/auth/login.asp	rwarburton	N	65.140.140.189
1/15/04 11:35 PM	10	Login time does not match acceptable window	/auth/login.asp	katied	N	216.187.239.60
1/15/04 11:35 PM	0	User login	/auth/login.asp	katied	N	216.187.239.60
1/15/04 11:33 PM	10	Login time does not match acceptable window	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:33 PM	0	User login	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:33 PM	10	Login time does not match acceptable window	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:33 PM	0	User login	/auth/login.asp	btaylor	N	24.11.194.43
1/15/04 11:31 PM	10	Web crawler	/robots.txt	?	N	195.101.94.101
1/15/04 11:23 PM	10	Login time does not match acceptable window	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:23 PM	0	User login	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:23 PM	10	Login time does not match acceptable window	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:23 PM	0	User login	/auth/login.asp	lthrash	N	216.253.195.146
1/15/04 11:22 PM	10	Login time does not match acceptable window	/auth/login.asp	josh	N	216.187.239.60

4604 4606 4608 4610 4612 4614 4616

Internet

4632

FIG. 46B



4634



4636



FIG. 46E

4638

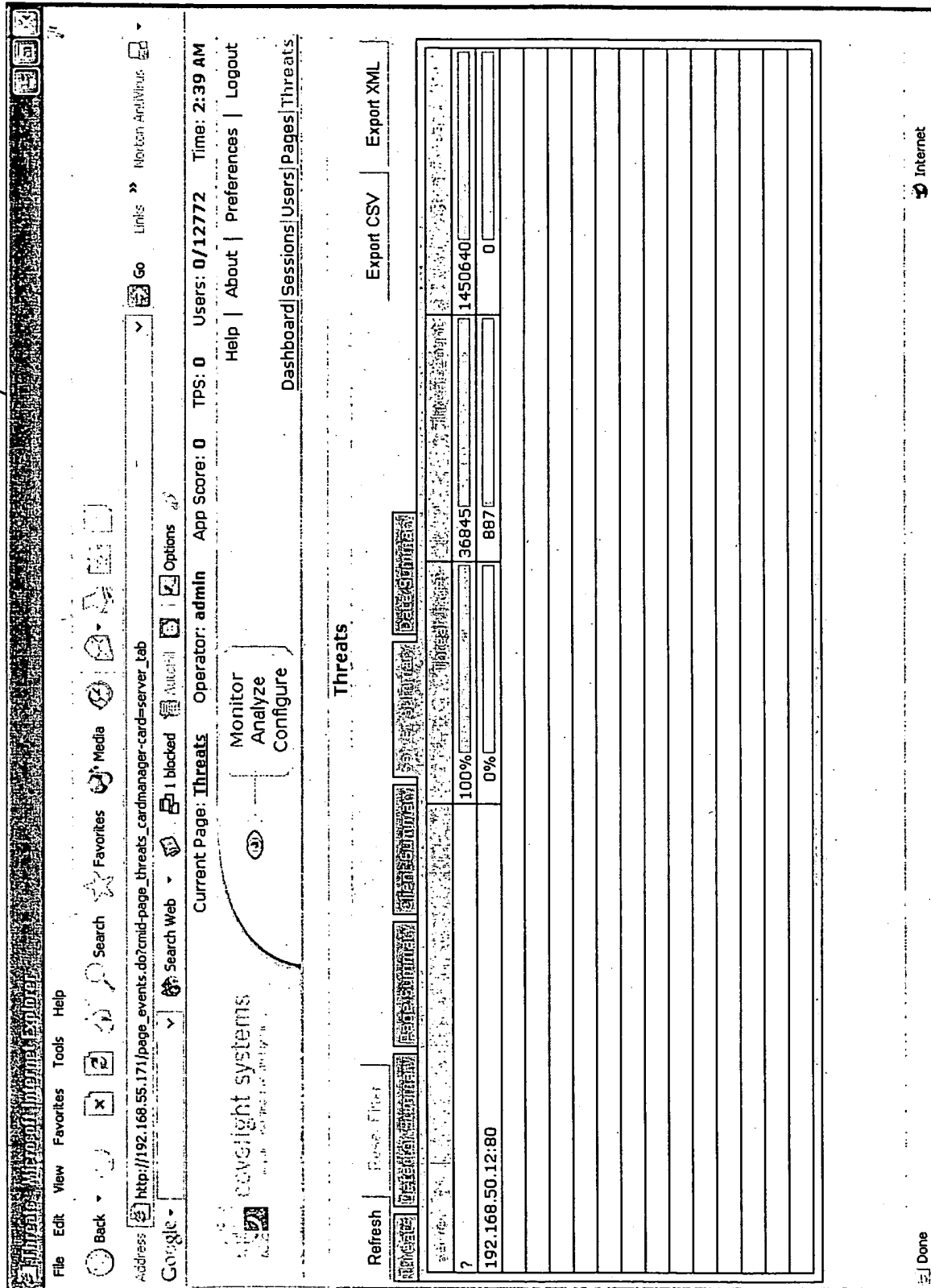




FIG.

4700 47


Threat Detail - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_events.do?rowlink=1074226788814103&tableindex=0&tableid=page_threats_table Go Links Norton AntiVirus

Current Page: **Threats / Event Detail** Operator: virgilw App Score: 3 TPS: 0.4 Users: 20/31 Time: 11:06 AM

 **covelight systems**
(application security intelligence)

 **Monitor**
Analyze
Configure

Help | About | Preferences | Logout

SUM SES USE PAG THR
Summary Sessions Users Pages Threats

Threat Detail

1/104 Next>

Timestamp:	1/15/04 11:53 PM
Threat score:	20
Detector:	Simultaneous login (Search)
Description:	User is logged in twice on different sessions
Request URI:	/project/project.asp (Search)
User:	rwarburton (Search)
Flagged:	<input type="checkbox"/>
Session ID:	LDAKLCADCGLHMKMICHJKHPLO (Search)
Client IP address:	216.187.239.60 (Search)
Server IP address:	192.168.2.19:80 (Search)

Internet

FIG. 48

4800

Transactions - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.55.211/main.do?page=page_bns

Current Page: **Transactions** Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:00 AM

covelight systems (application security intelligence)

Monitor Analyze Configure MI AI CE

Help About Preferences Logout

4822 4824 4826 4828 Transactions 4830 4832 4834 4836 4838

Refresh Reset Filter Export CSV Export XML

Transactions Method Summary Client Summary Page Summary Status Summary Content-Type Summary Server Summary Date Summary

Showing 1-15 of 1000 (20023 Total Items)

Method	URI	User	Status	Content Length	Content Type	Threat Score	Timestamp	Response Time
GET	/	?	302	135	text/html	0	1/16/04 11:00 AM	6
GET	/images/addloc.gif	?	200	1664	image/gif	0	1/16/04 11:00 AM	2
GET	/images/additem.gif	?	200	1529	image/gif	0	1/16/04 11:00 AM	0
GET	/images/selectsum.gif	?	200	2079	image/gif	0	1/16/04 11:00 AM	0
GET	/images/rt_tabnotch.gif	?	200	49	image/gif	0	1/16/04 11:00 AM	0
GET	/images/rt_tabnotch.gif	?	200	48	image/gif	0	1/16/04 11:00 AM	0
GET	/images/s.gif	?	200	43	image/gif	0	1/16/04 11:00 AM	0
GET	/js/menu.js	?	200	897	application/x-javascript	0	1/16/04 11:00 AM	0
GET	/vbs/_utils.vbs	?	200	956	text/vbscript	0	1/16/04 11:00 AM	0
GET	/js/model.js	?	200	421	application/x-javascript	0	1/16/04 11:00 AM	0
GET	/js/util.js	?	200	5608	application/x-javascript	0	1/16/04 11:00 AM	3
GET	/js/_const.js	?	200	200	application/x-javascript	0	1/16/04 11:00 AM	0
GET	/include/builder_styles/stylemain.css	?	200	12924	text/css	0	1/16/04 11:00 AM	0
GET	/budget/itemaddmod.asp	jon	200	5488	text/html	0	1/16/04 11:00 AM	199
GET	/budget/selectionDetail.asp	jon	200	10454	text/html	0	1/16/04 11:00 AM	2026

Internet

4804

4802

4806

4808

4810

4812

4814

4816

4818

4820

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FOR A SERVER APPLICATION

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FIG. 49

4900


Transaction Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print Mail

Address http://192.168.55.211/page_bns.do?rowlink=107426881090038488&tableindex=18&tableid=page_bns_table Go Links Norton AntiVirus

Current Page: [Transactions](#) / [Transaction Detail](#) Operator: [virgilw](#) App Score: 3 TPS: 0.1 Users: 20/31 Time: 11:07 AM

 **covelight systems**
(application security intelligence)

Monitor Analyze Configure

Help | About | Preferences | Logout

[Transactions](#) | [Network](#)

Transaction Detail

Transaction: 107426881090038488 <Previous 19/1000 Next>

Timestamp:	1/16/04 11:00 AM	HTTP response:	302 (Search)
Method:	POST (Search)	Content Length:	175
URI:	/budget/ItemAddM od.asp (Search)	Content Type:	text/html (Search)
User:	1 (Search)	Server Response Time:	2.8 s
Client IP Address:	66.180.103.154 (Search)	Server IP Address:	192.168.2.19:80 (Search)
Session ID:	? (Search)		

Name	Value
IngAttachmentsCount	0
chkInventory	0
IngEventId	
txtItemDesc	co #3
blnNewItem	False
DeleteOneAttachment	
actionType	Save
strWebLink	
IngLocationId	650189281
IngOldProjectId	560003098
oldItemID	
itemID	501077459
txtItemInfo	
IngSelectionId	680062400

Done Internet

FIG.

50

5000

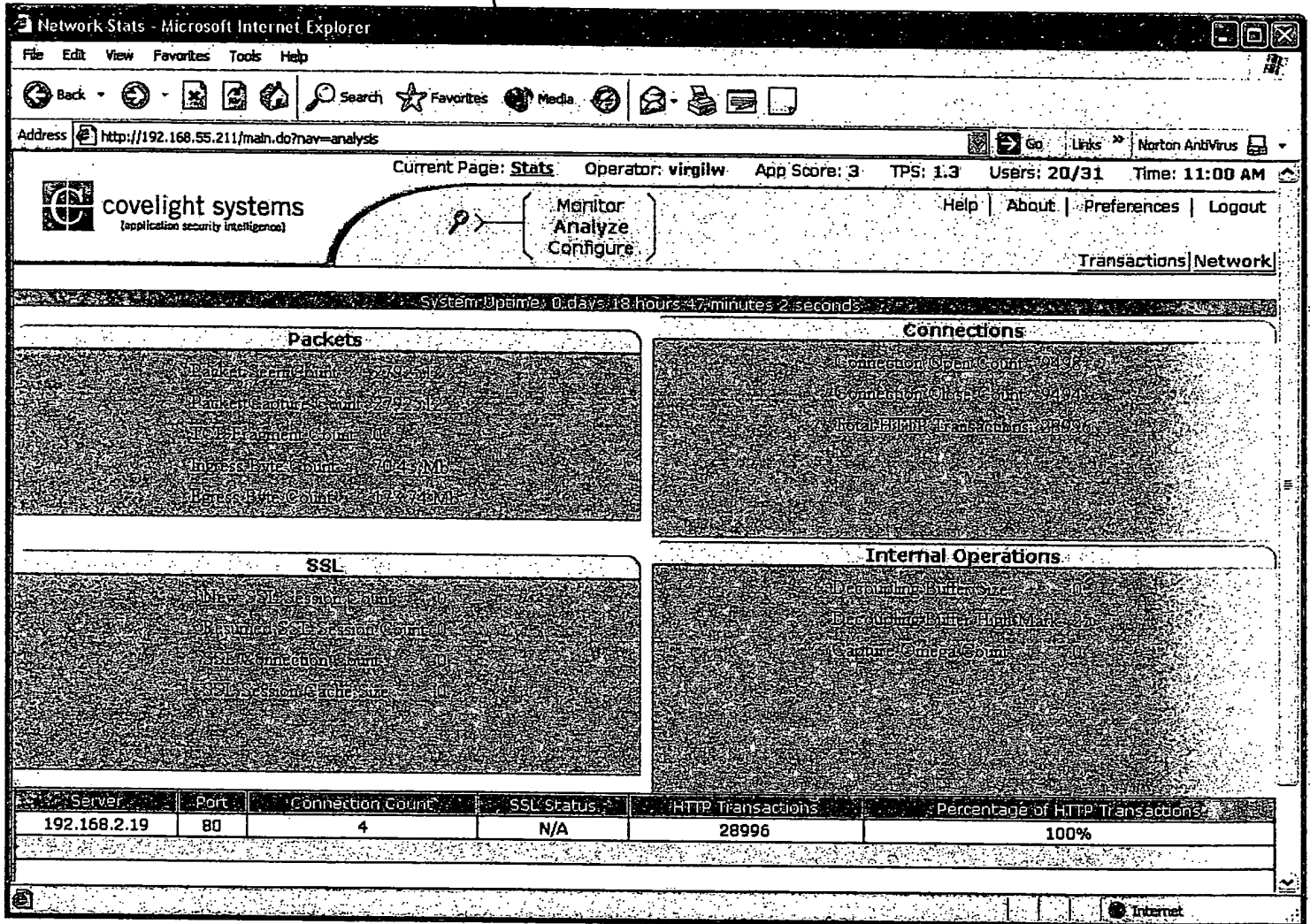


FIG. 51

5100


Preferences - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://192.168.55.211/main.do?page=page_appconfig Go Links Norton AntiVirus

Current Page: **Preferences** Operator: virgilw App Score: 3 TPS: 0.1 Users: 20/31 Time: 11:07 AM

 **covelight systems**
(application security intelligence)

Help | About | Preferences | Logout

Application | Appliance | Detection | Operators | Save Points

Change Password

Current Password:

New Password:

Confirm Password:

Apply

Interface Settings

Table Size:

Refresh Rate: ☒ Seconds

Apply

Internet

5102

5104

FIG. 52

5200

Appliance - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_sensorcfg.do?cmid-page_cfg&appliance_cardmanager1-card=network_tab Go Links Norton Antivirus

Current Page: **Appliance** Operator: virgilw App Score: 4 TPS: 0.3 Users: 20/31 Time: 11:10 AM

covelight systems
(application security intelligence)

Monitor Analyze Configure

Help About Preferences Logout

Application Appliance Detection Operators Save Points

Control Network Time Firmware SMTP Server

IP Address

Subnet Mask

Gateway

Primary DNS 192 168 55 240

Secondary DNS

Public ☒ Sensor Port 80

Private ☒ HTTP Port 443

Apply and Reboot Sensor

Internet

5202

FIG. 53

5300

Appliance - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_sensorcfg.do?cmid-page_cfgappliance_cardmanager1-card-smtpserversettings_tab Go Links Norton AntiVirus

Current Page: **Appliance** Operator: virgilw App Score: 4 TPS: 1.7 Users: 23/31 Time: 11:28 AM

covelight systems
[application security intelligence]

Monitor
Analyze
Configure

Help | About | Preferences | Logout

Application | **Appliance** | Detection | Operators | Save Points

Control | Network | Time | Firmware | **SMTP Server**

SMTP Server:

Username:

Password:

System Name:

Email Address:

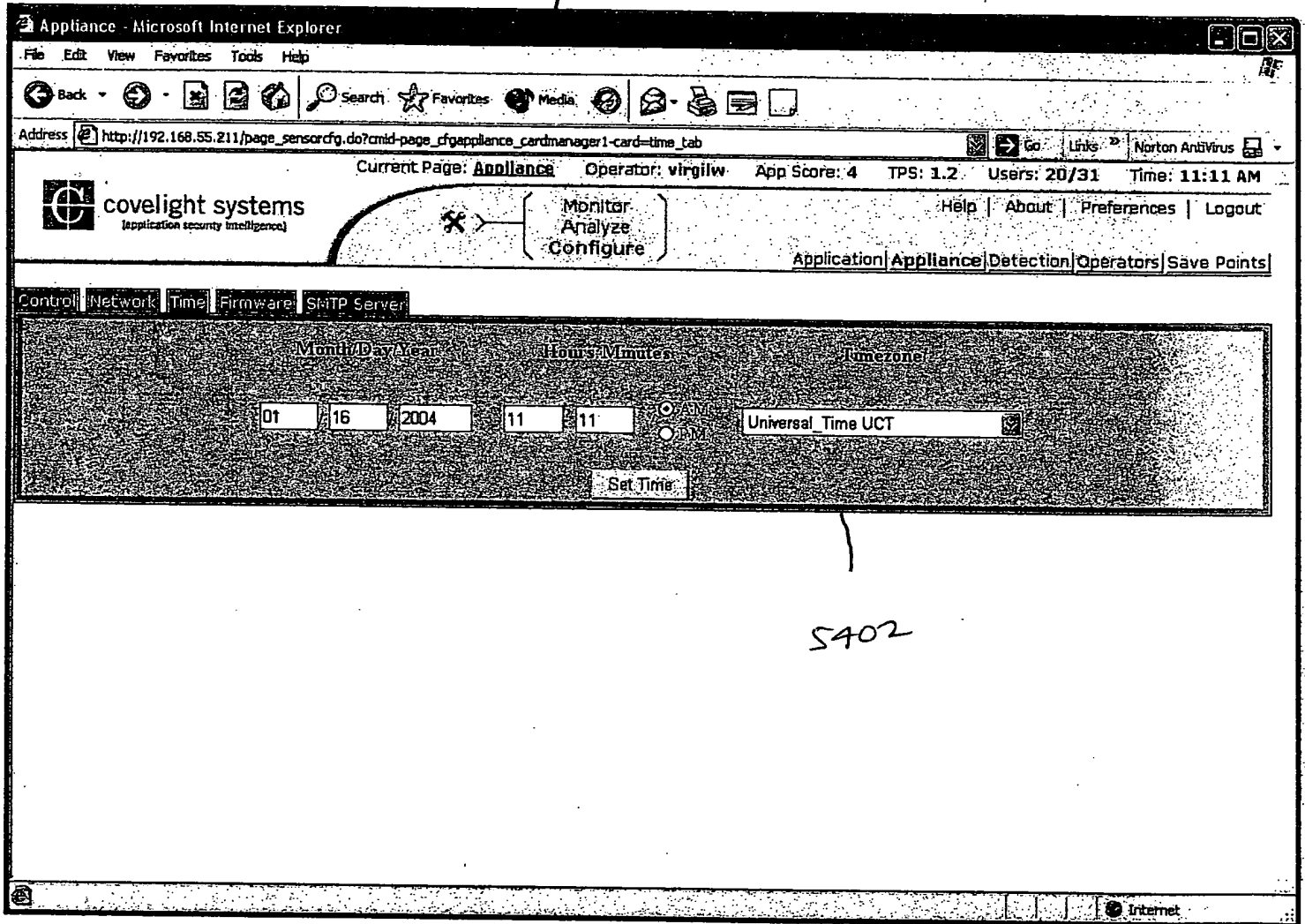
Enable Host Intrusion: ☐

Apply

Internet

FIG. 54

5400



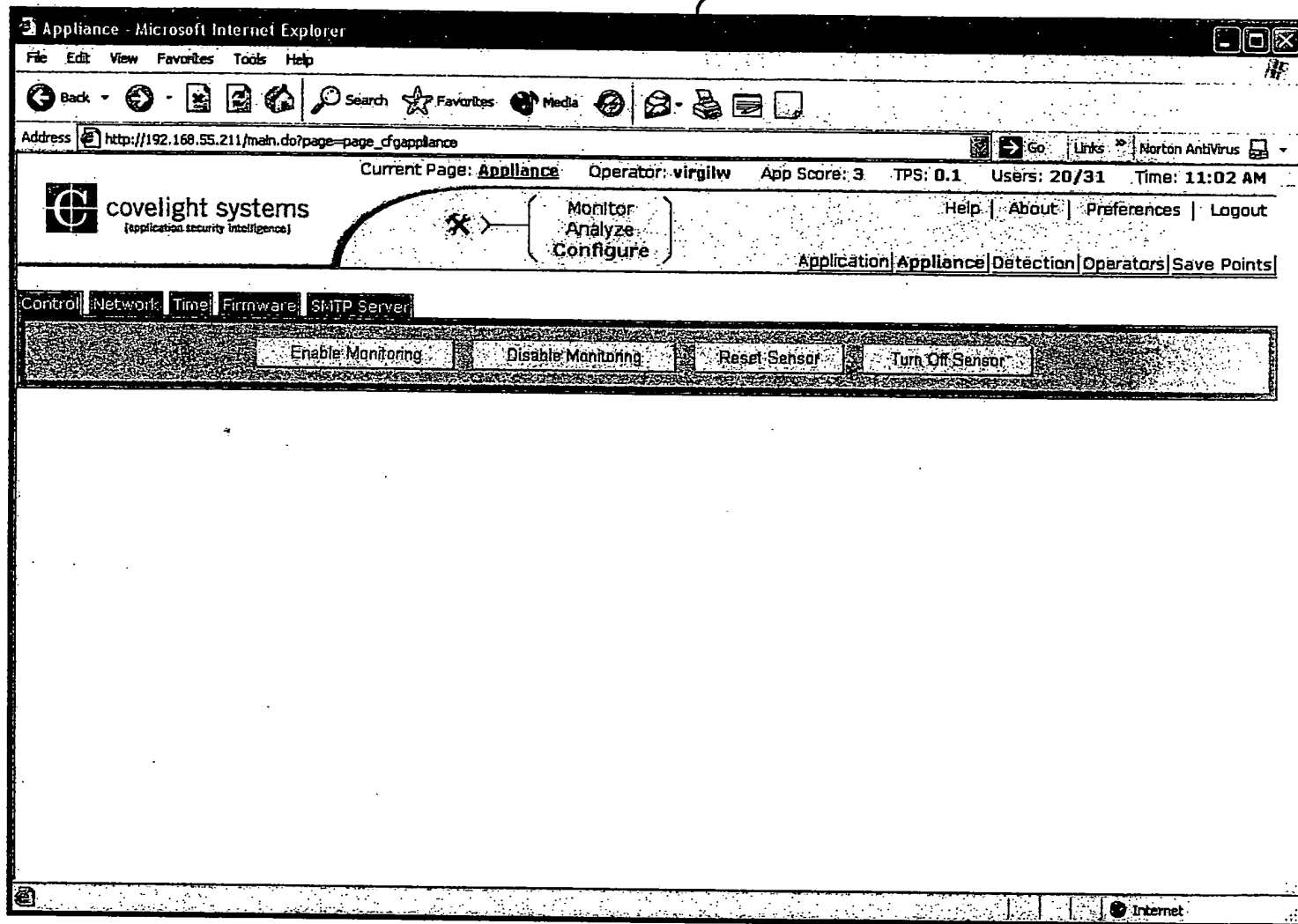
5402

5500



FIG. 56

5600



5700

5702

5704

5706

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FIG. 58

5800


Application - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_monappconfig.do?cmd=page_ofgapplication_cardmanager1-card=pagerecognition_Tab Go Links Norton AntiVirus

Current Page: **Application** Operator: **virgilw** App Score: 3 TPS: 0.3 Users: 20/31 Time: 11:09 AM

 **covelight systems**
(application security intelligence)

Help | About | Preferences | Logout

Monitor
Analyze
Configure

Application | Appliance | Detection | Operators | Save Points

Servers | Filters | Page Recognition | Sessions | Logins

Patterns used to reduce URLs to webpages

☐ *

Ignore case ☒

Internet

FIG. 59

5900

Application - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_sessiondetectioncfg.do?mid-page_cfgapplication_cardmanager1-card=sessions_tab Go Links Norton AntiVirus

Current Page: Application Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:09 AM

covelight systems
(application security intelligence)

Monitor Analyze Configure

Help | About | Preferences | Logout

Application | Appliance | Detection | Operators | Save Points

Servers Filters Page Recognition Sessions Logins

Session Management

☐ Standard HTTP sessions
☐ Standard HTTPS sessions
☐ Standard SOAP sessions
☐ Custom sessions

Application Server Features

☐ Permissive sessions
☐ Strict sessions

Session timeout in minutes: 125

☒ Enable proxy

Custom Settings

☒ Session ID is embedded
Session ID name: ASPSESSIONID

☒ Embed session ID in path

☐ Session ID is not embedded as a query argument in URLs
Name of query argument:

☐ Session ID is not embedded as a path parameter in URLs
Name of path parameter:

Internet

7002

1804

7000

FIG. 60

6000

Application - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://192.168.55.211/page_loginDetectionCfg.do?mid-page_cfgapplication_cardmanager1-card-logins_tab Go Links Norton AntiVirus

Current Page: **Application** Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:10 AM

covelight systems
(application security intelligence)

Monitor Analyze Configure

Help About Preferences Logout

Application | Appliance | Detection | Operators | Save Points

Servers | Filters | Page Recognition | Sessions | Logins

Form Based Login Detection

☒ Form based login

☐ Use case sensitive matches

URL pattern of login attempt:

Form field containing user ID:

☐ Logout page returned

URL pattern of login action:

Form Based Login Result

☐ Fail if login form is not submitted with HTML

☐ Fail if response status is not one of the following HTML patterns

☐ Fail if response HTML contains the following text

☐ Successful login response contains the following URL pattern

☐ Successful response HTML contains the following text

☐ Successful login application server generates a session

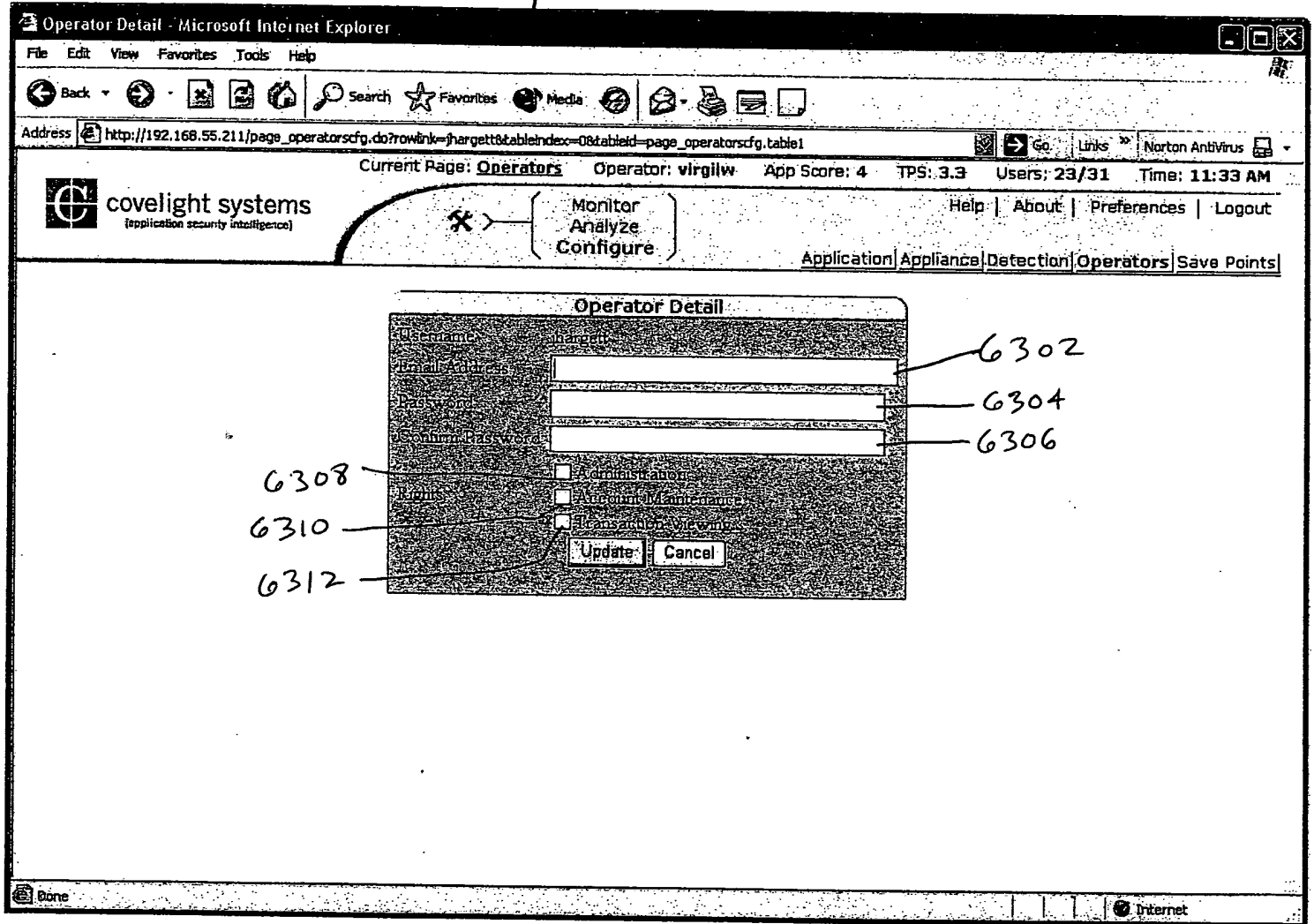
Update

Internet

6002

FIG. 63

6300



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6400



FIG. 65

6500

Operators - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address http://192.168.55.211/page_operatorscfg.do?cmd=page_cfgoperators_cardmanager1-card=auditlog_tab

Current Page: Operators Operator: virgilw App Score: 4 TPS: 2.9 Users: 22/31 Time: 11:32 AM

Help | About | Preferences | Logout

Application | Appliance | Detection | Operators | Save Points

Accounts | Mailing Lists | Audit Log | Reports

Refresh

Export CSV Export XML

Date	Message	IP Address	Operator
1/16/04 11:28 AM	Login successful	192.168.55.101	virgilw
1/16/04 10:57 AM	Login successful	192.168.55.101	virgilw
1/16/04 10:11 AM	Changed operator virgilw refresh rate to 30	192.168.55.17	virgilw
1/16/04 10:11 AM	Changed operator virgilw refresh rate to 30	192.168.55.17	virgilw
1/16/04 9:30 AM	Login successful	192.168.55.17	virgilw
1/16/04 9:27 AM	Login successful	192.168.55.17	virgilw
1/16/04 9:26 AM	Login successful	65.81.86.237	dmdurrett
1/16/04 8:47 AM	Login successful	192.168.55.17	virgilw
1/16/04 8:47 AM	Logout successful	65.81.86.237	dmdurrett
1/16/04 8:17 AM	Login successful	65.81.86.237	dmdurrett
1/16/04 7:37 AM	Login successful	65.81.86.237	dmdurrett
1/15/04 7:34 PM	Login successful	65.81.86.237	dmdurrett
1/15/04 7:34 PM	Login denied for admin	192.168.55.101	virgilw
1/15/04 7:14 PM	Login successful	192.168.55.101	?
1/15/04 6:34 PM	Login successful	192.168.55.101	virgilw
1/15/04 6:04 PM	Login successful	192.168.55.10	dmdurrett
1/15/04 5:46 PM	Login successful	69.132.60.166	jhargett
1/15/04 5:24 PM	Login successful	65.81.86.237	admin
		192.168.55.10	dmdurrett

FIG. 66

6600

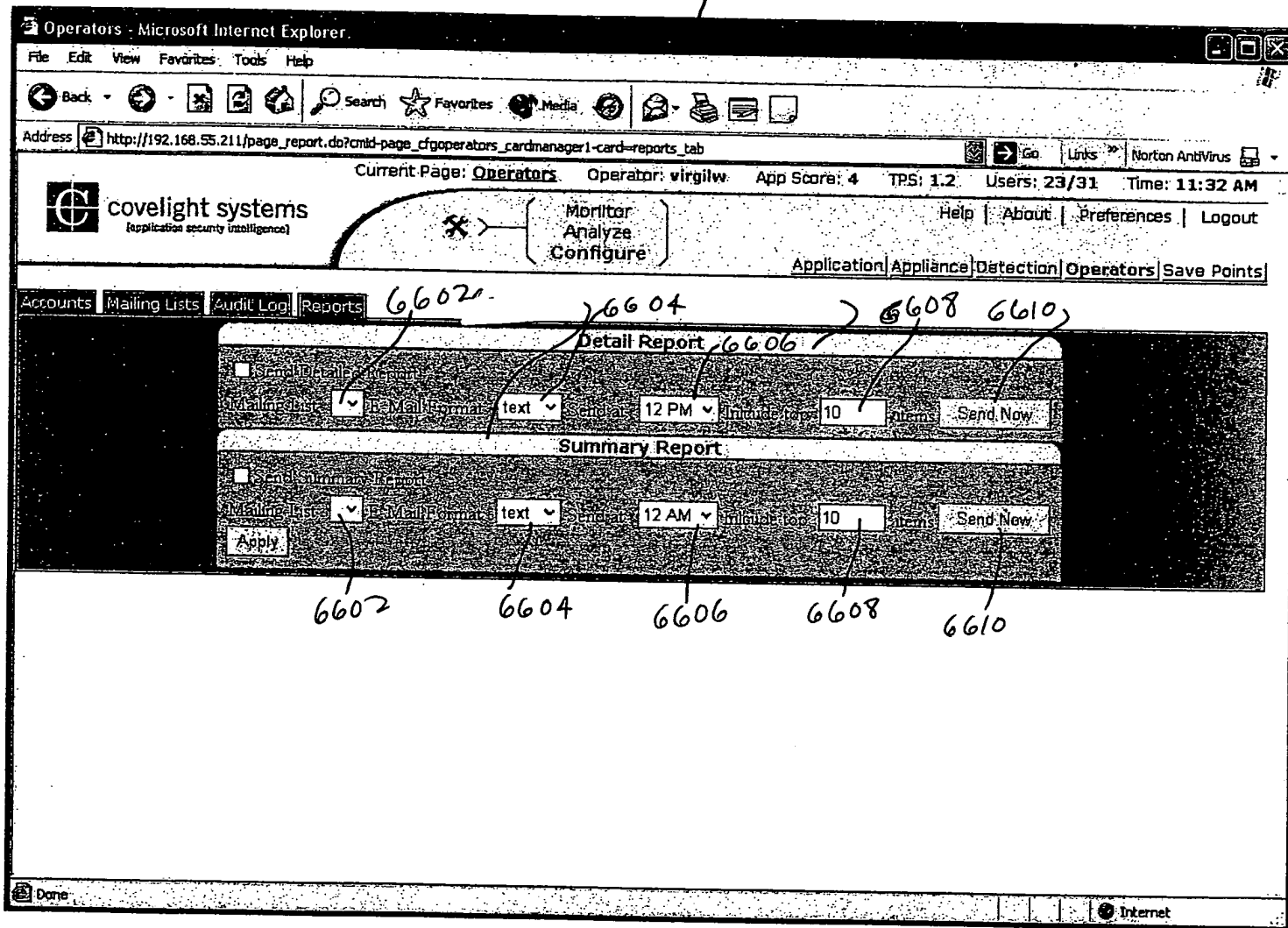


FIG. 67

6700

Detection - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address http://192.168.55.211/main.do?page=page_cfgdetection

Current Page: **Detection** Operator: virgilw App Score: 3 TPS: 0.1 Users: 20/31 Time: 11:02 AM

covelight systems
[application security intelligence]

Monitor Analyze Configure

Help About Preferences Logout

Application Appliance **Detection** Operators Save Points

Detectors Global Scoring Adjustment Access Lists

Showing 1-13 of 43

Name	Category	Score	Status
Abnormal node error rate	Application Errors	10	Working
Abnormal session duration	Application Misuse	10	Learning
Abnormal user session duration	Application Misuse	10	Working
Application request rate too high	Usage Policy	70	Working
Consecutive login failures	Authentication	30	Working
Disallowed IP address	Access Policy	10	Disabled
Encoded 8-bit character	URL Encoding	5	Working
Excessive individual HTTP errors	HTTP Protocol	40	Working
Excessive login failures	Authentication	10	Learning
Excessive total HTTP errors	HTTP Protocol	40	Working
Flagged user login	Access Policy	50	Working
HTTP buffer overflow	HTTP Protocol	80	Working
HTTP parsing error	HTTP Protocol	80	Working
Invalid % character	URL Encoding	50	Working
Invalid HTTP request	HTTP Protocol	80	Working
Invalid URL encoding	URL Encoding	80	Working
Invalid UTF-8 sequence	URL Encoding	20	Working
Invalid use of %%	URL Encoding	50	Working

6702 6704 6706 6708

Internet

FIG. 68

6800

Detector Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address http://192.168.55.211/page_detectors.do?rowlink=rate1%5C18&tableIndex=38&tableId=page_detectors_detectorTable Go Links Norton AntiVirus

Current Page: **Detection / Detector Detail** Operator: virgilw App Score: 4 TPS: 0.4 Users: 23/31 Time: 11:37 AM

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(application security intelligence)

Monitor Analyze Configure

Help | About | Preferences | Logout

Application | Appliance | **Detection** | Operators | Save Points

Detector Detail <Previous 4/43 Next>

Name	Application throughput too high
Description	Detects when the overall rate of HTTP requests to the application is too high. The sensor takes samples of the transaction-per-second (TPS) throughput of the monitored application. When the value is higher than expected, it might suggest that an attack is progress or that
Enabled	<input checked="" type="checkbox"/>
Event Link	Application throughput (TPS) is too high
Threshold	70

E-mail Alerts

Send E-mail Alerts	<input type="checkbox"/> (No distribution list has been defined)
Event Count Limit	1
Destination List	<input checked="" type="checkbox"/>

Detector Tuning

Throughput Limit	1000
Transactions per Second	1000
TPS	

Apply

Done Internet

6802

6804

6806

6808

6810

6812

6900

Detection - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print Mail News

Address http://192.168.55.211/page_timescore.do?mid-page_cfgdetection_cardmanager1-card-timescoring_tab Go Links Norton AntiVirus

Current Page: **Detection** Operator: virgilw App Score: 4 TPS: 2.6 Users: 23/31 Time: 11:29 AM

covelight systems
[application security intelligence]

Help | About | Preferences | Logout

Application | Appliance | **Detection** | Operators | Save Points

Detectors | Global Scoring Adjustment | Access Lists

Global Scoring Adjustment

	From Day	From Hour	To Day	To Hour	Score Adjustment	Comment
<input type="checkbox"/>	Monday	8 AM	Monday	8 PM	60%	Normal working hours - Monday
<input type="checkbox"/>	Friday	9 PM	Sunday	7 AM	600%	No one should be working during these hours - and

Delete From: Friday 6 PM To: Sunday 8 AM Adjustment %: 100 Comment:

Add Adjustment

Internet

FIG. 70

7000

7006

7008



Access List Detail - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Search Favorites Media Options

Address http://192.168.55.171/detail_uai.do

Google

Current Page: [Detection](#) / [detail_uai](#) Operator: admin App Score: 0 TPS: 0 Users: 0/12772 Time: 2:40 AM

Help | About | Preferences | Logout

Application [Appliance](#) [Detection](#) [Operators](#) [Save Points](#)

covelight systems
Application security intelligence

Access List Detail

Users	IP Address Patterns	Disabled Detectors	Scoring Adjustment
test	192.168.55.*	Abnormal node error rate	From Day: Friday To Day: Sunday Score Adjustment: 100%

Done